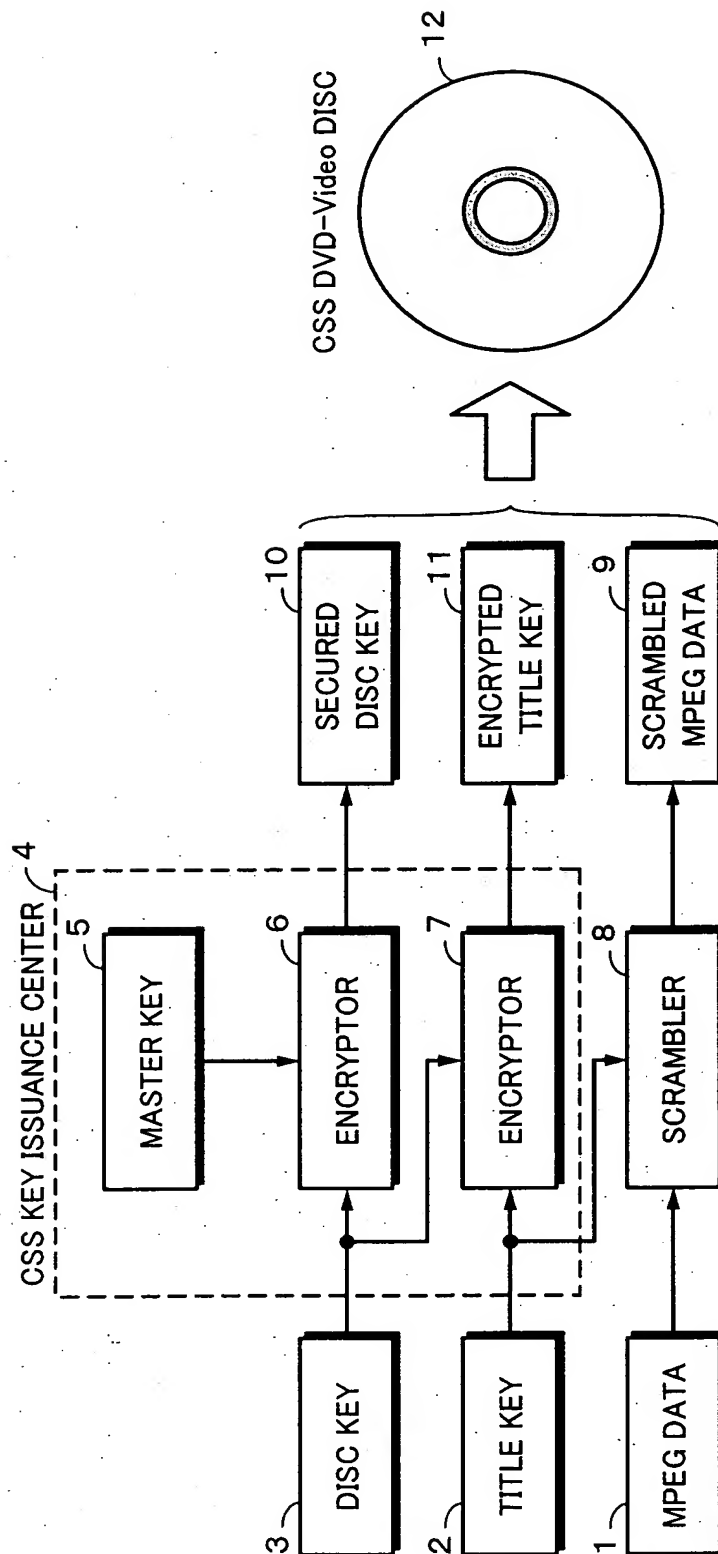
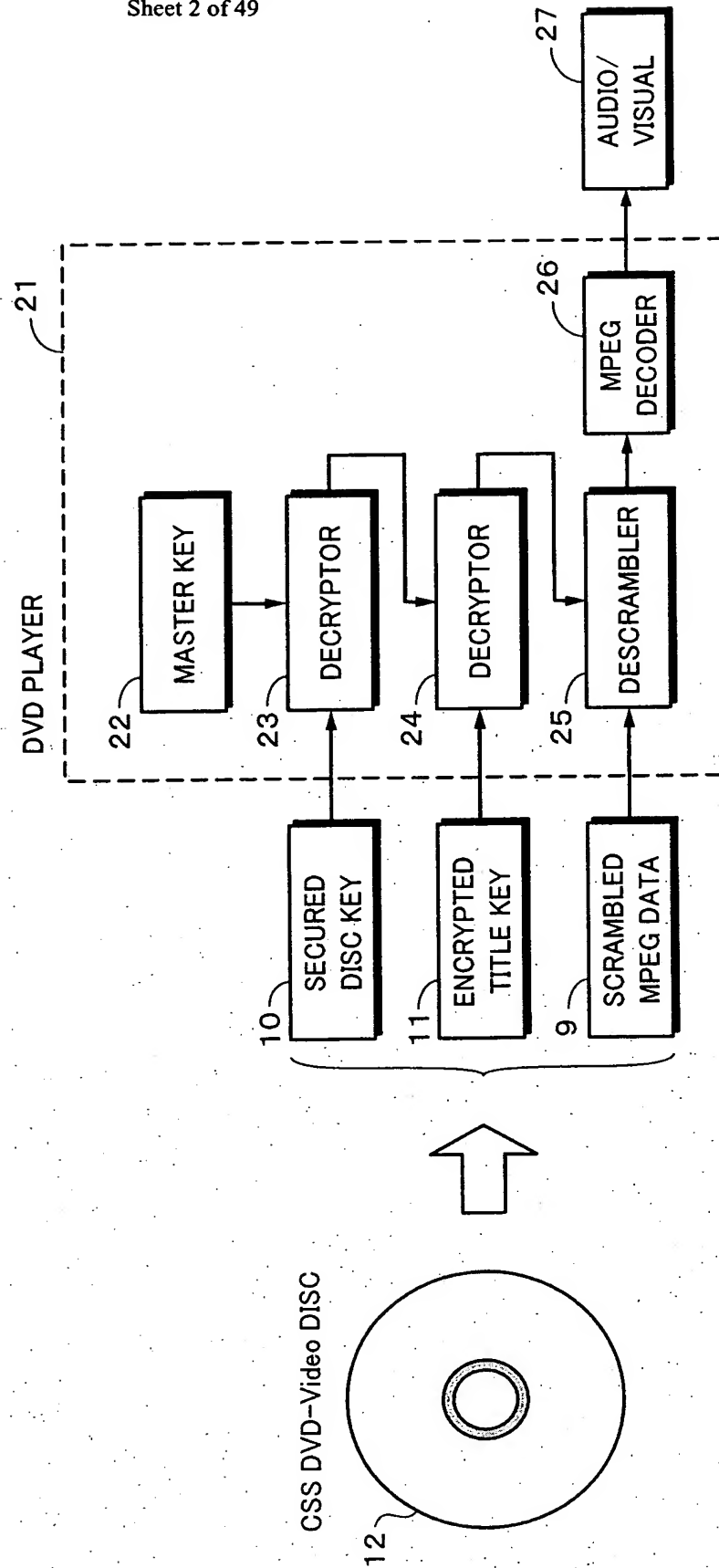


**Fig. 1**



**Fig. 2**



**Fig. 3**

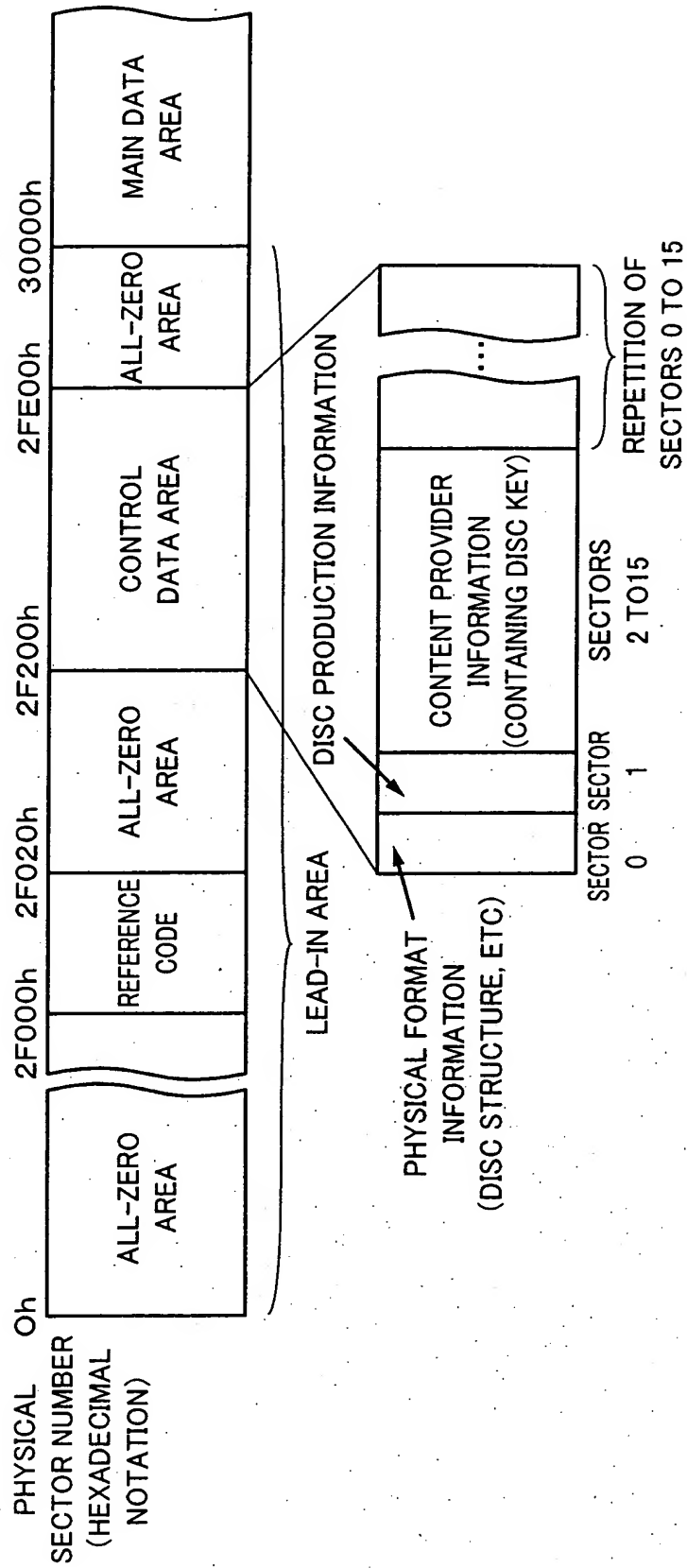
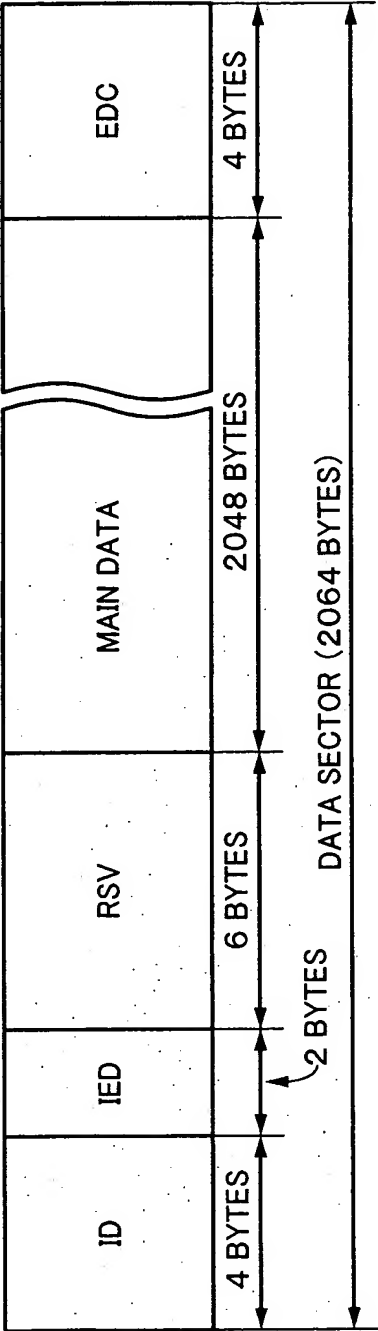
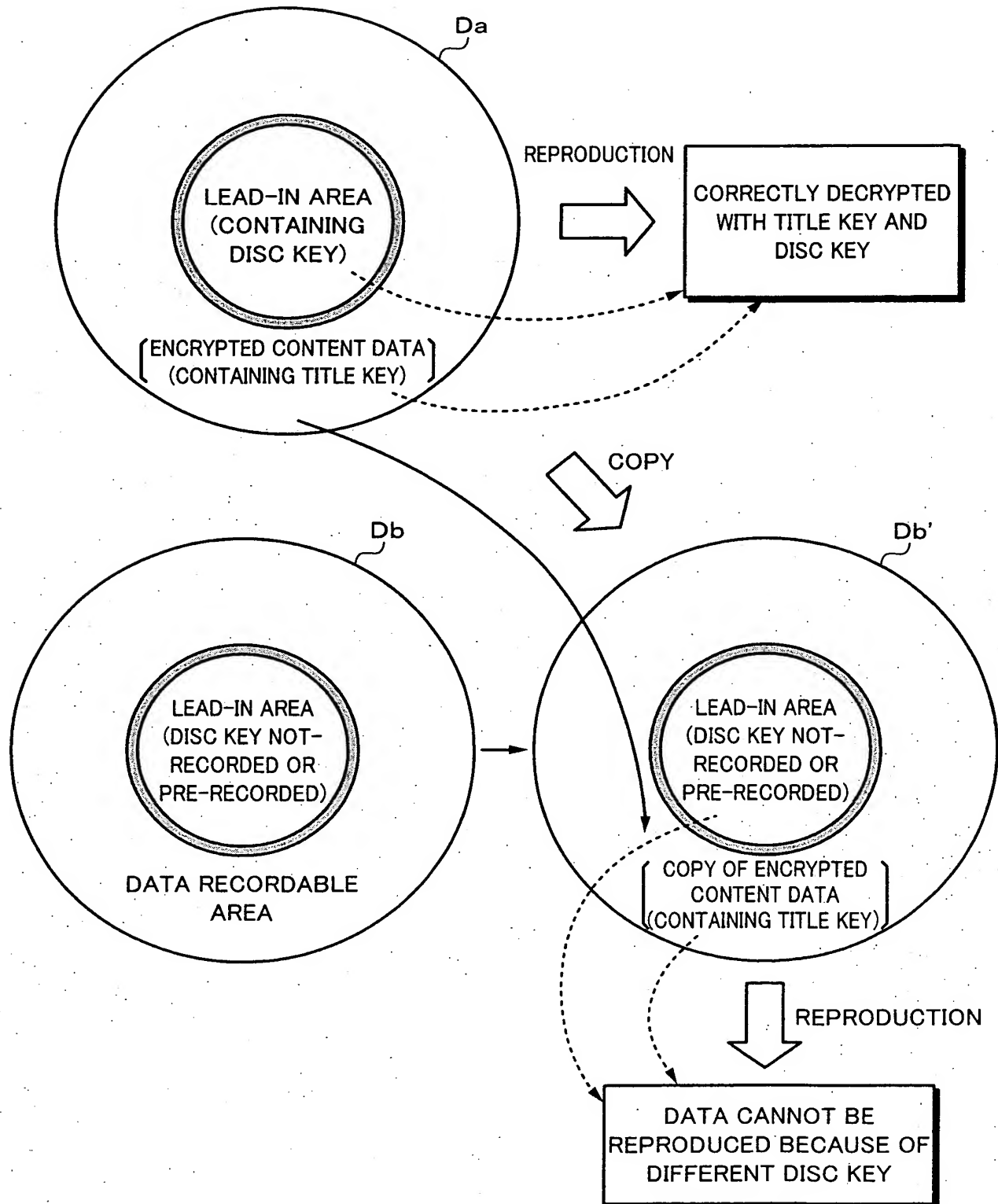


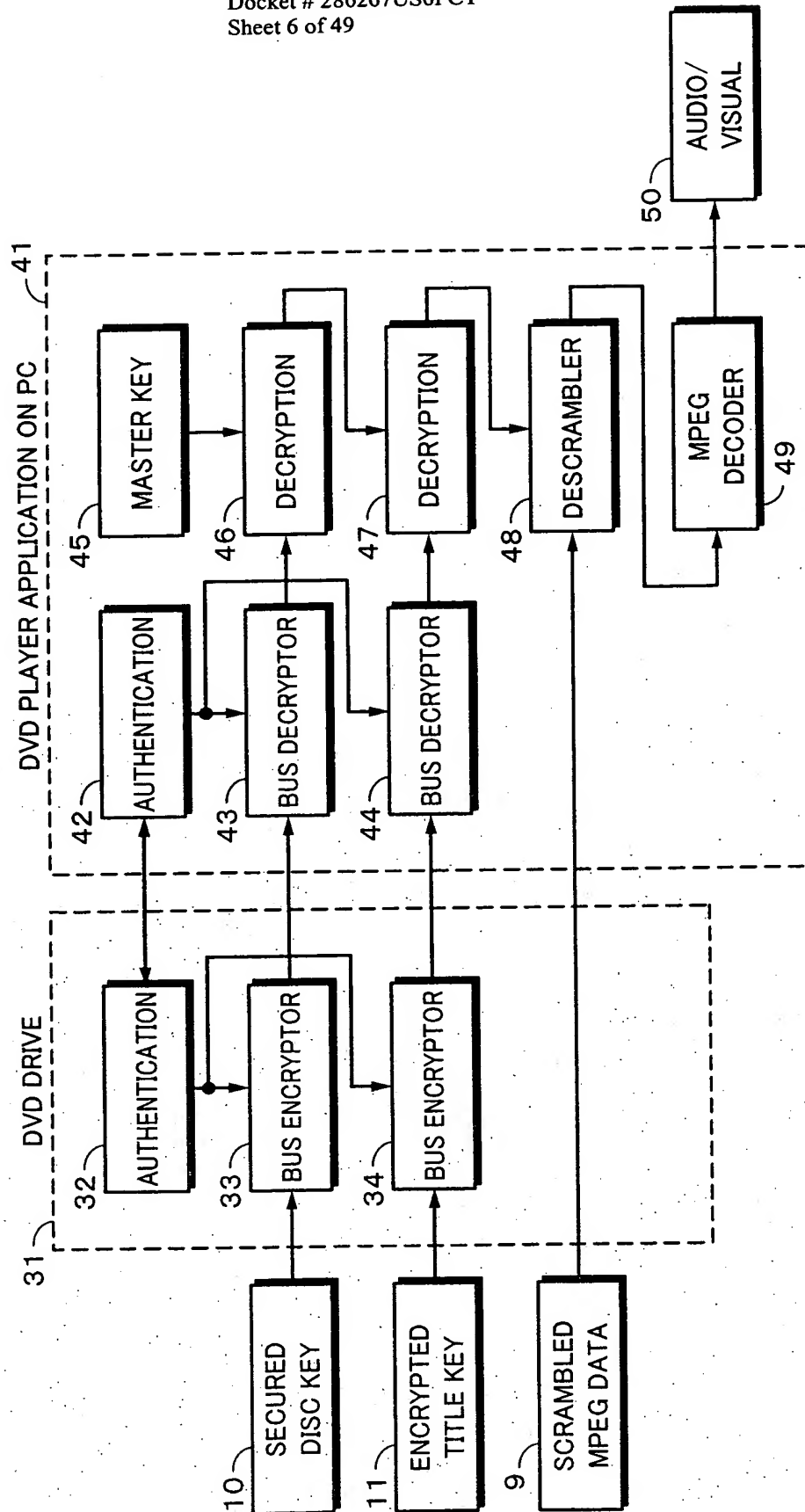
Fig. 4



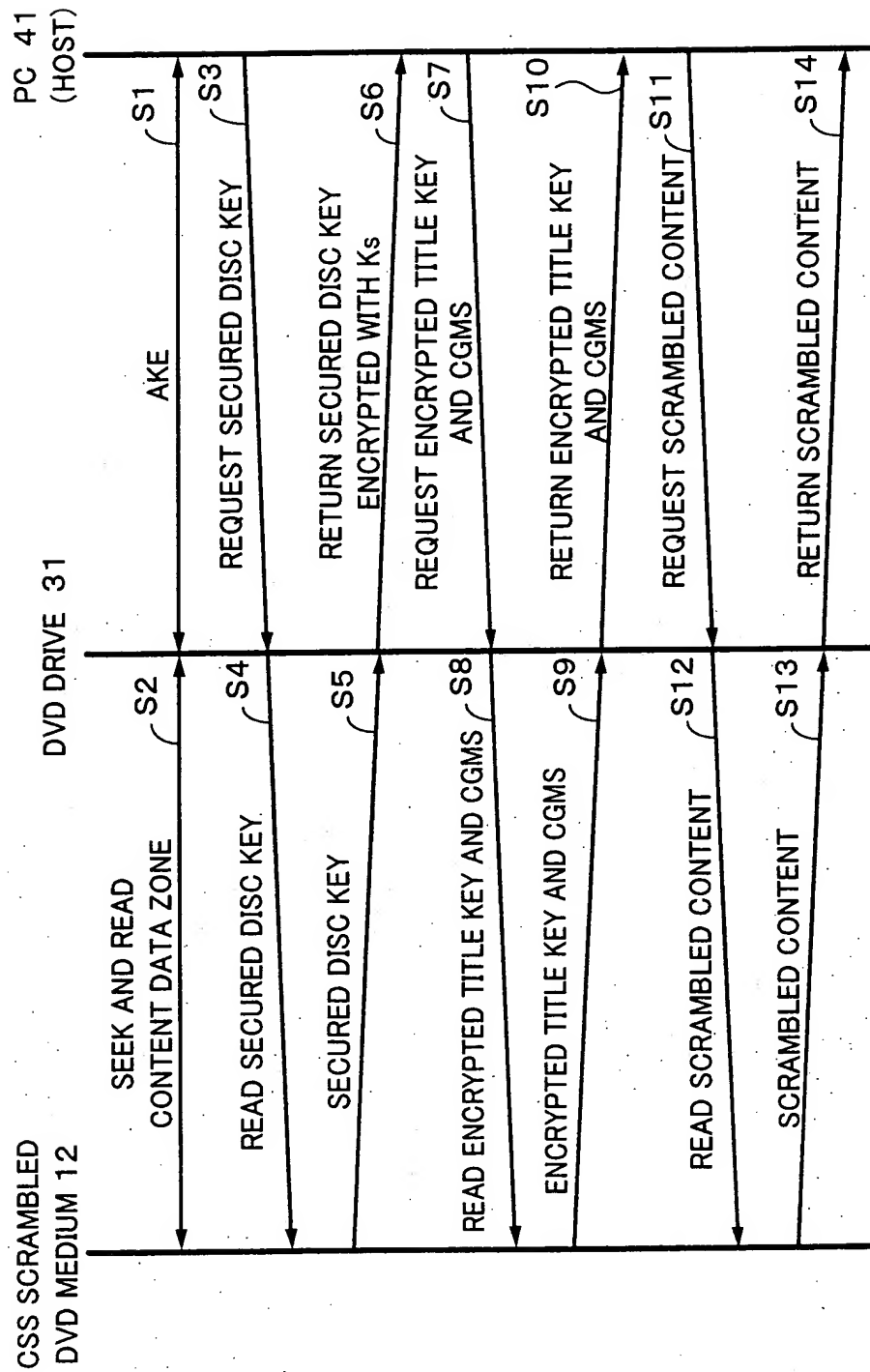
**Fig. 5**



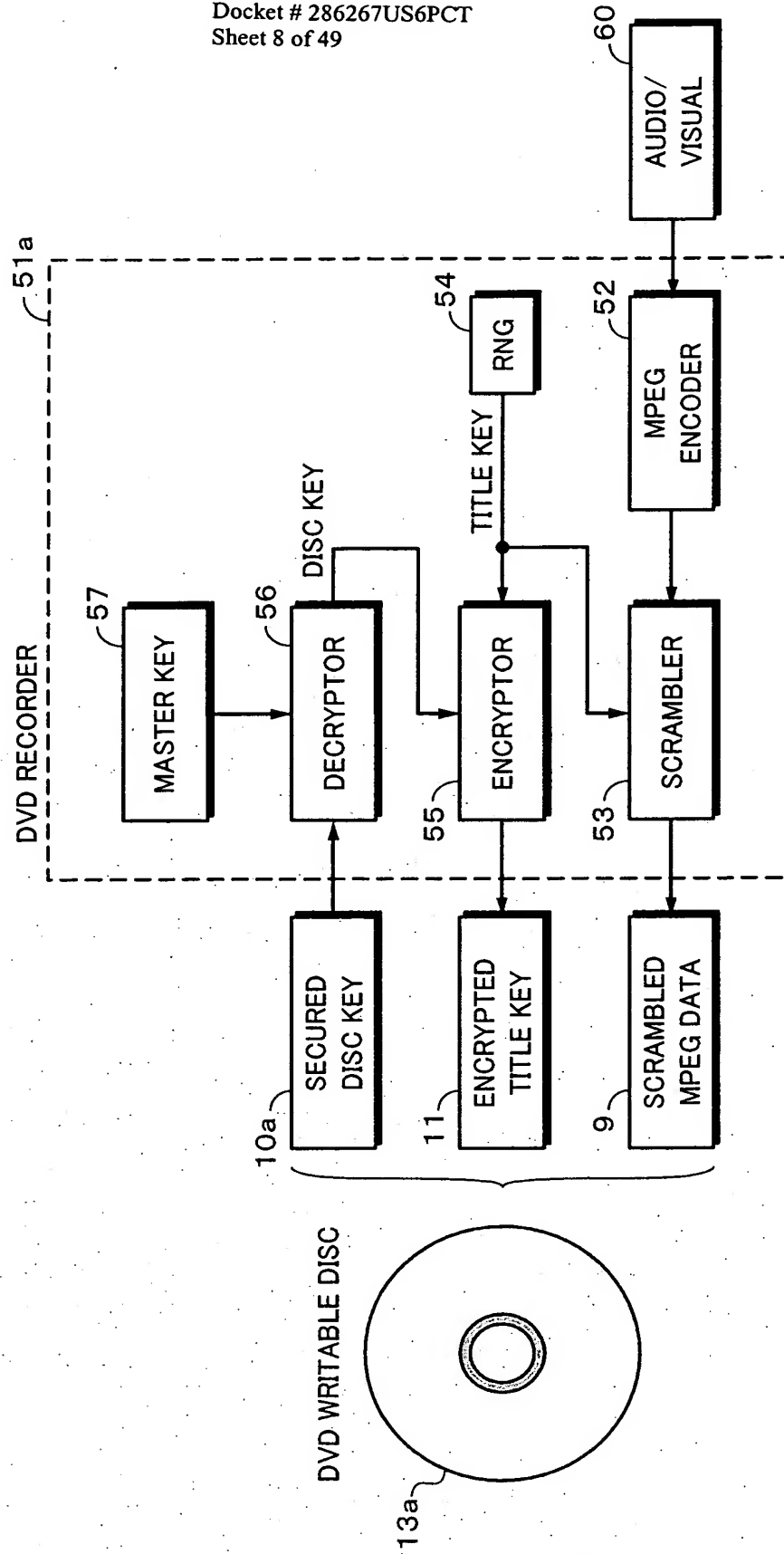
**Fig. 6**



**Fig. 7**

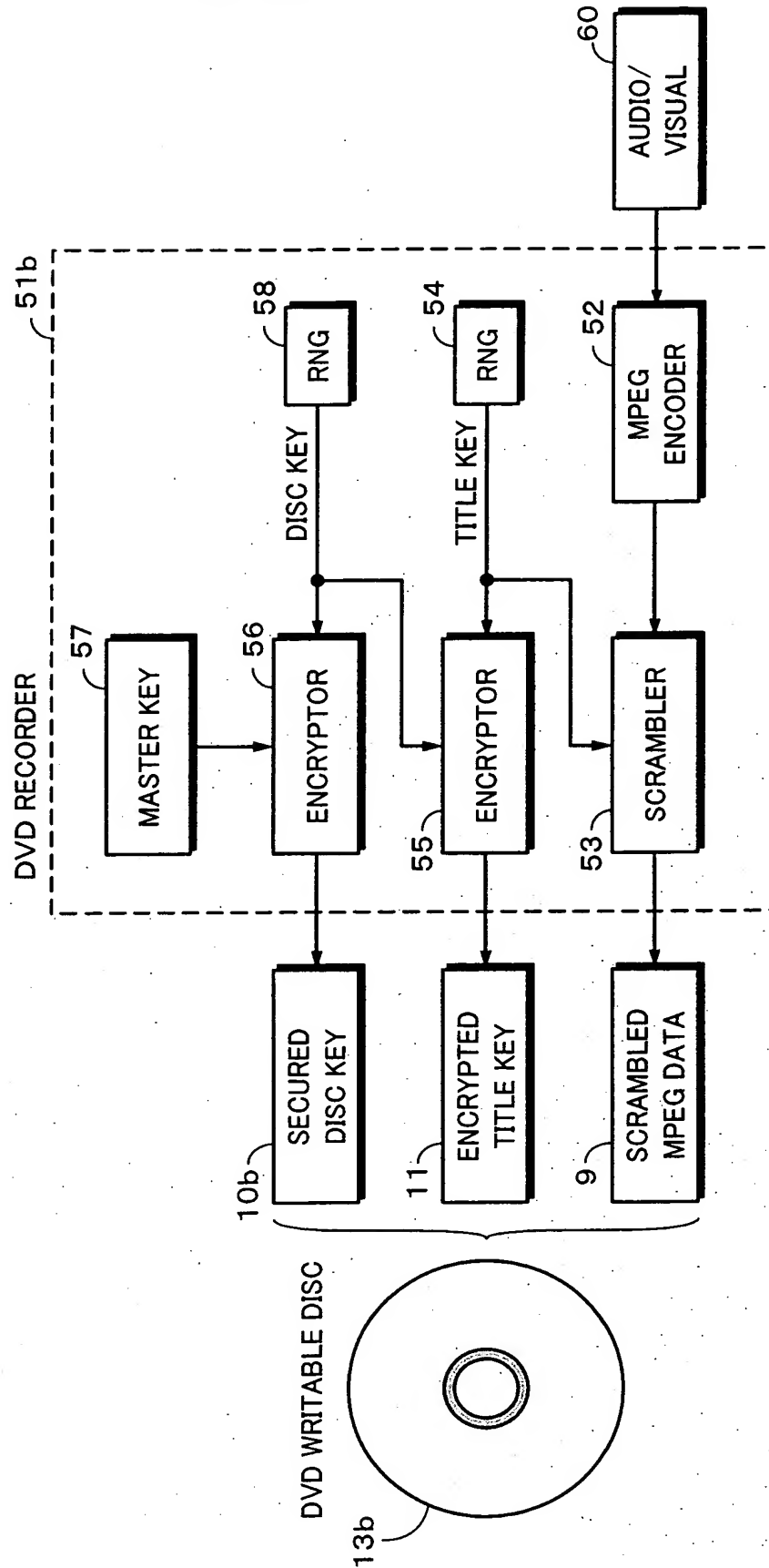


**Fig. 8**

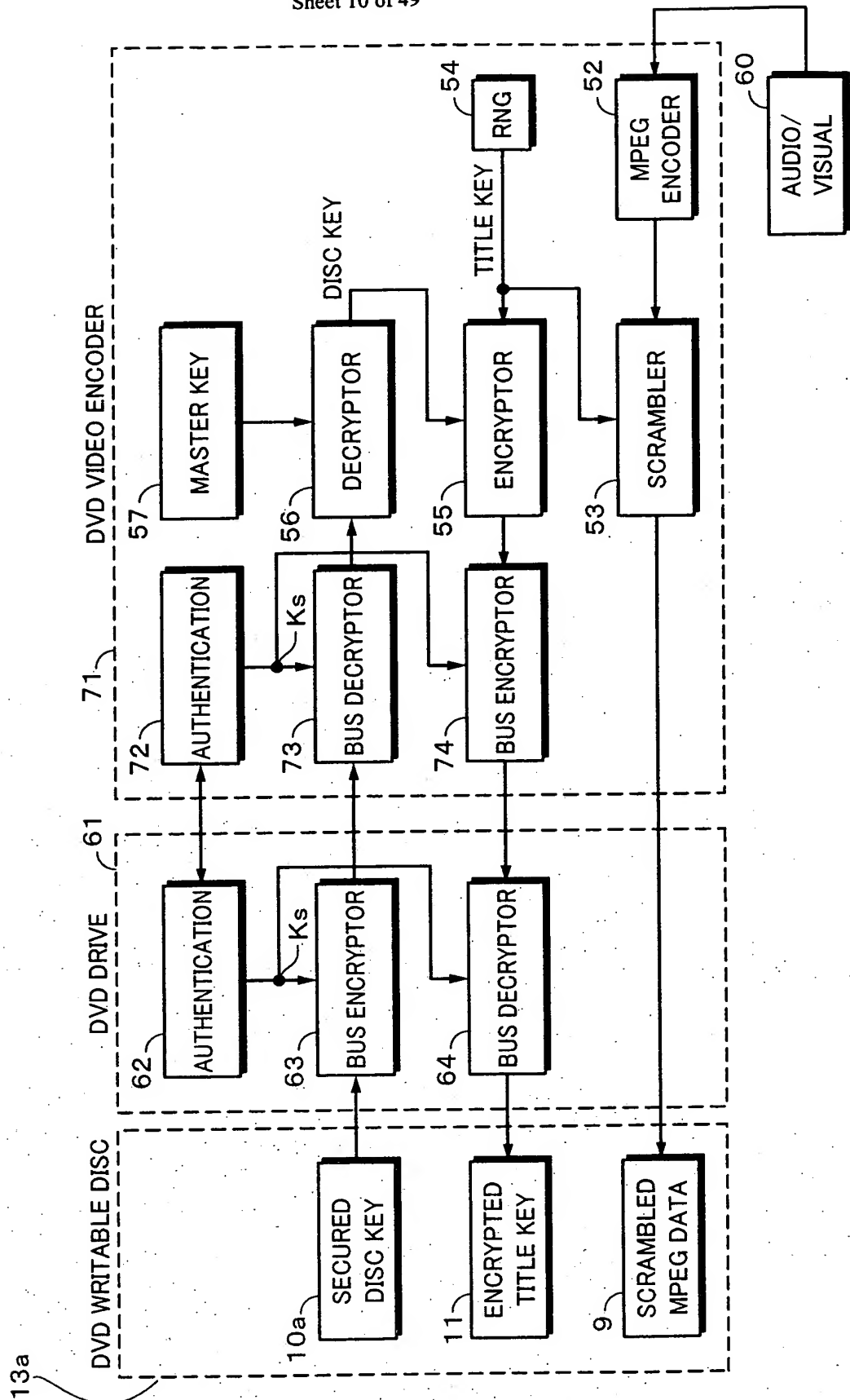




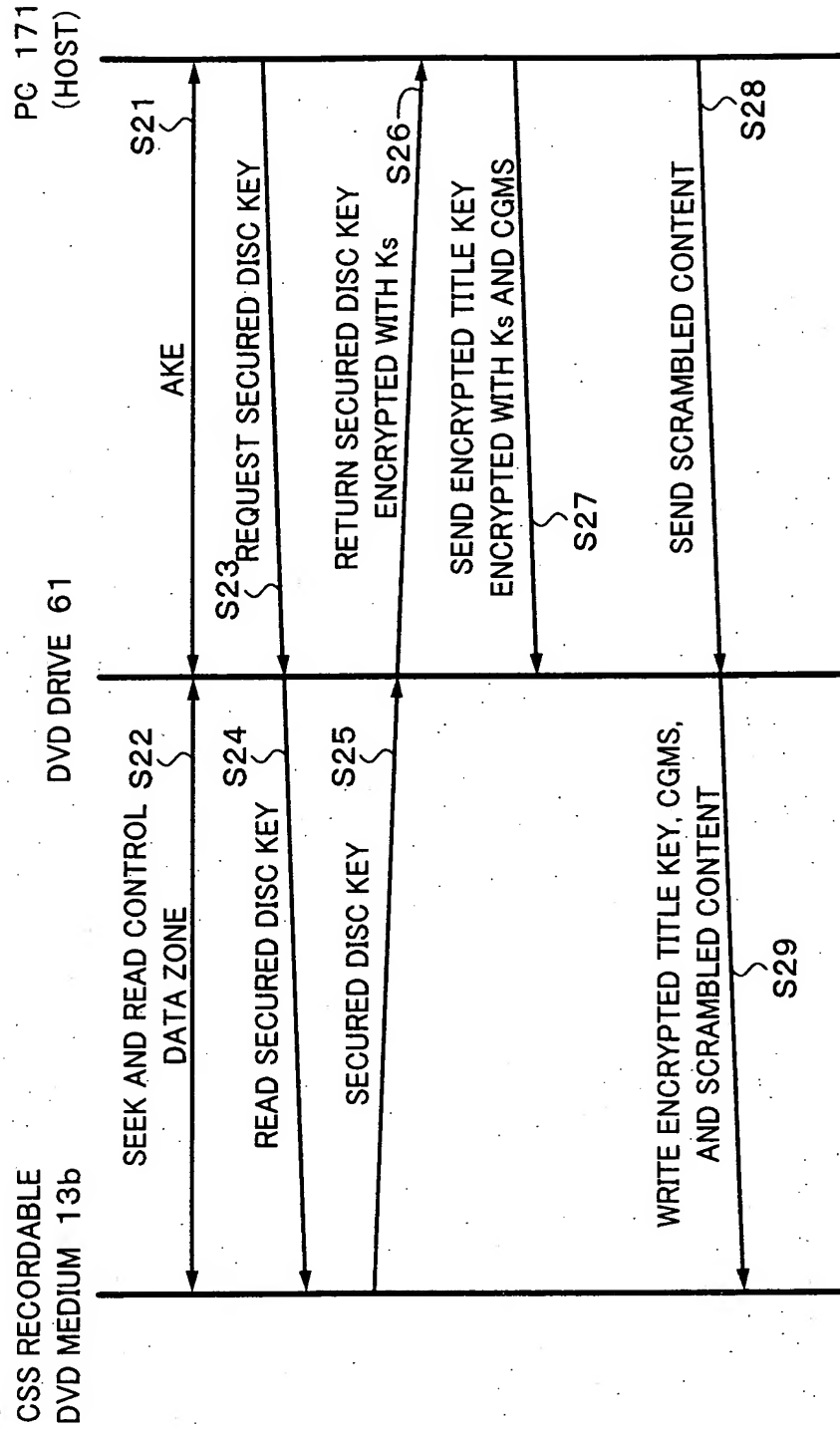
**Fig. 9**



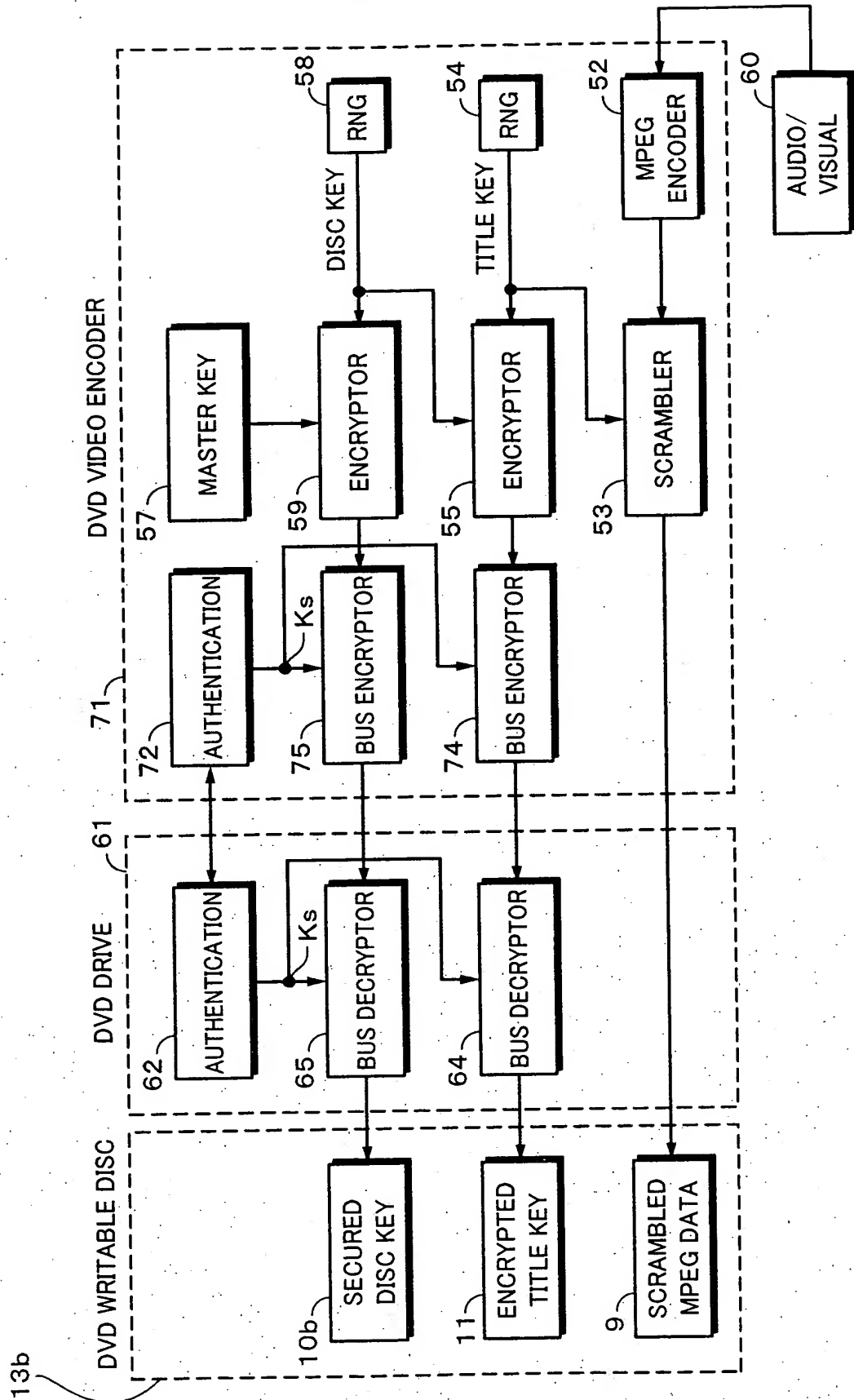
**Fig. 10**



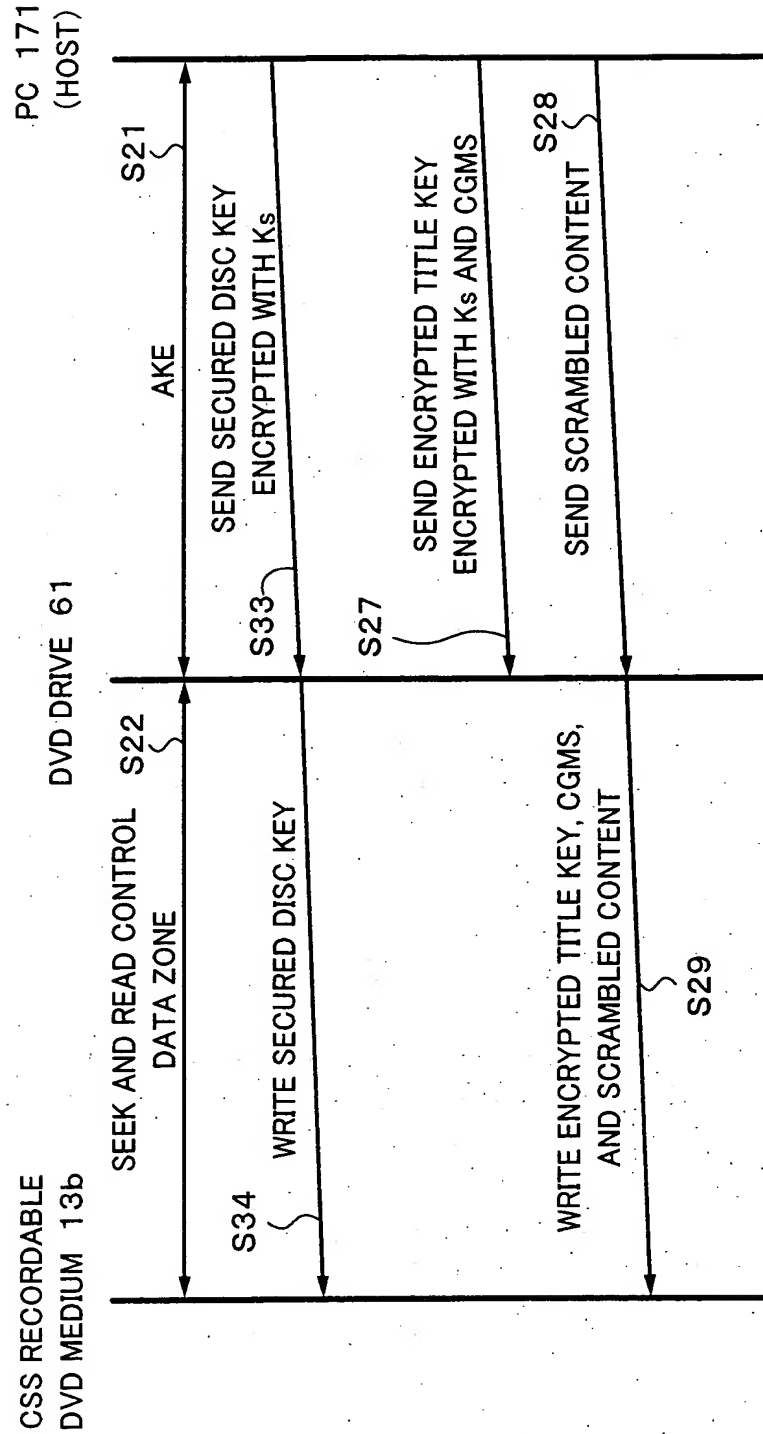
**Fig. 11**



**Fig. 12**



**Fig. 13**



**Fig. 14**

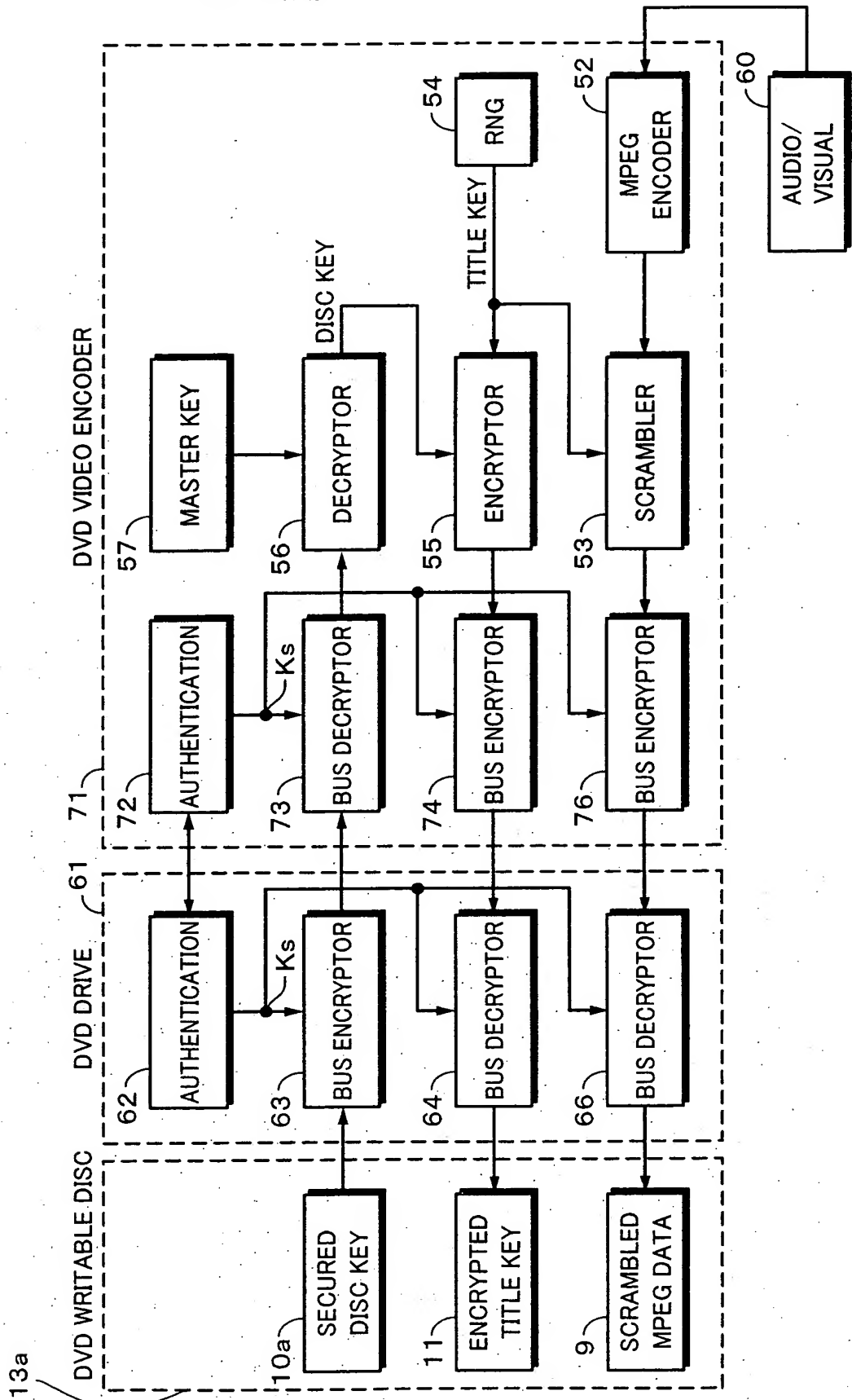


Fig. 15

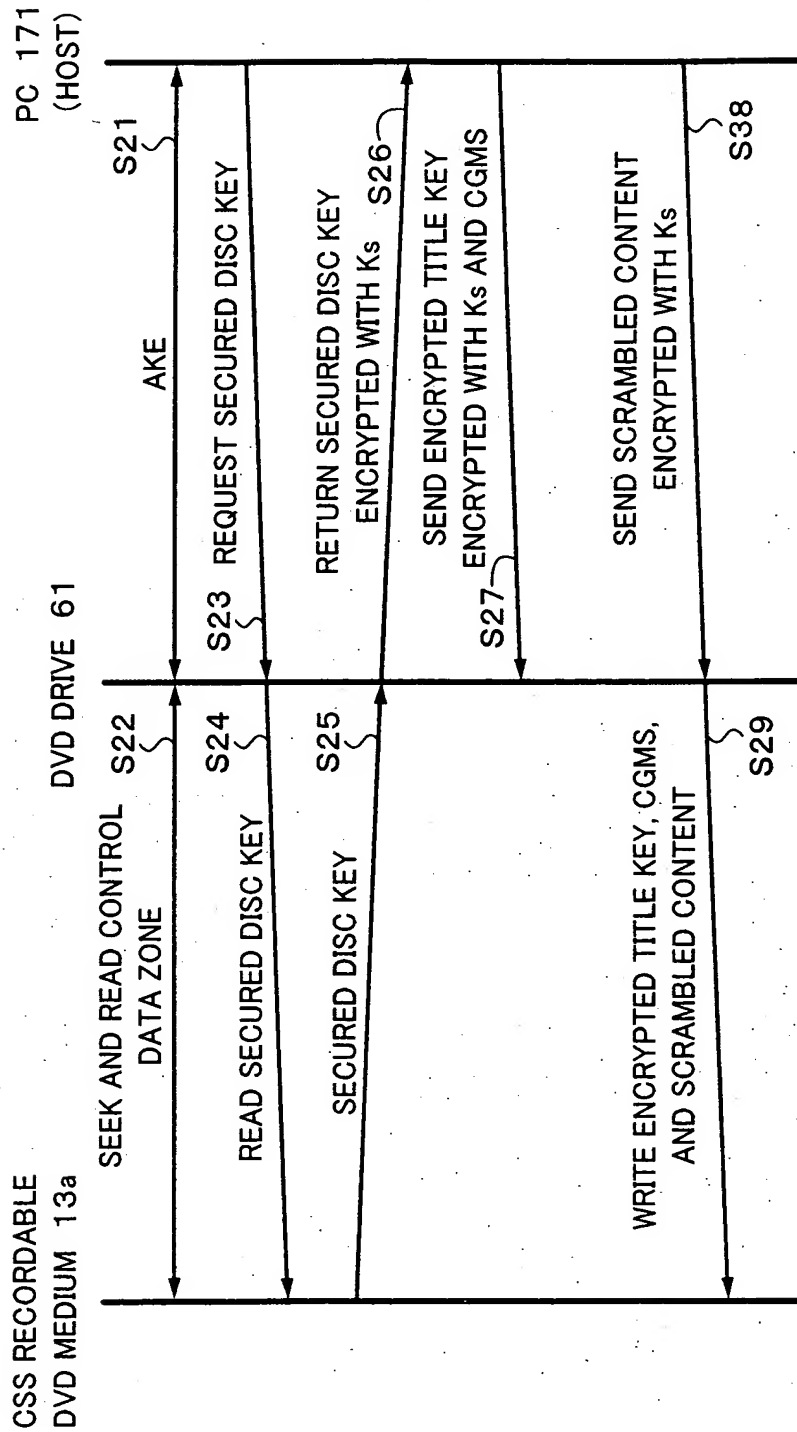
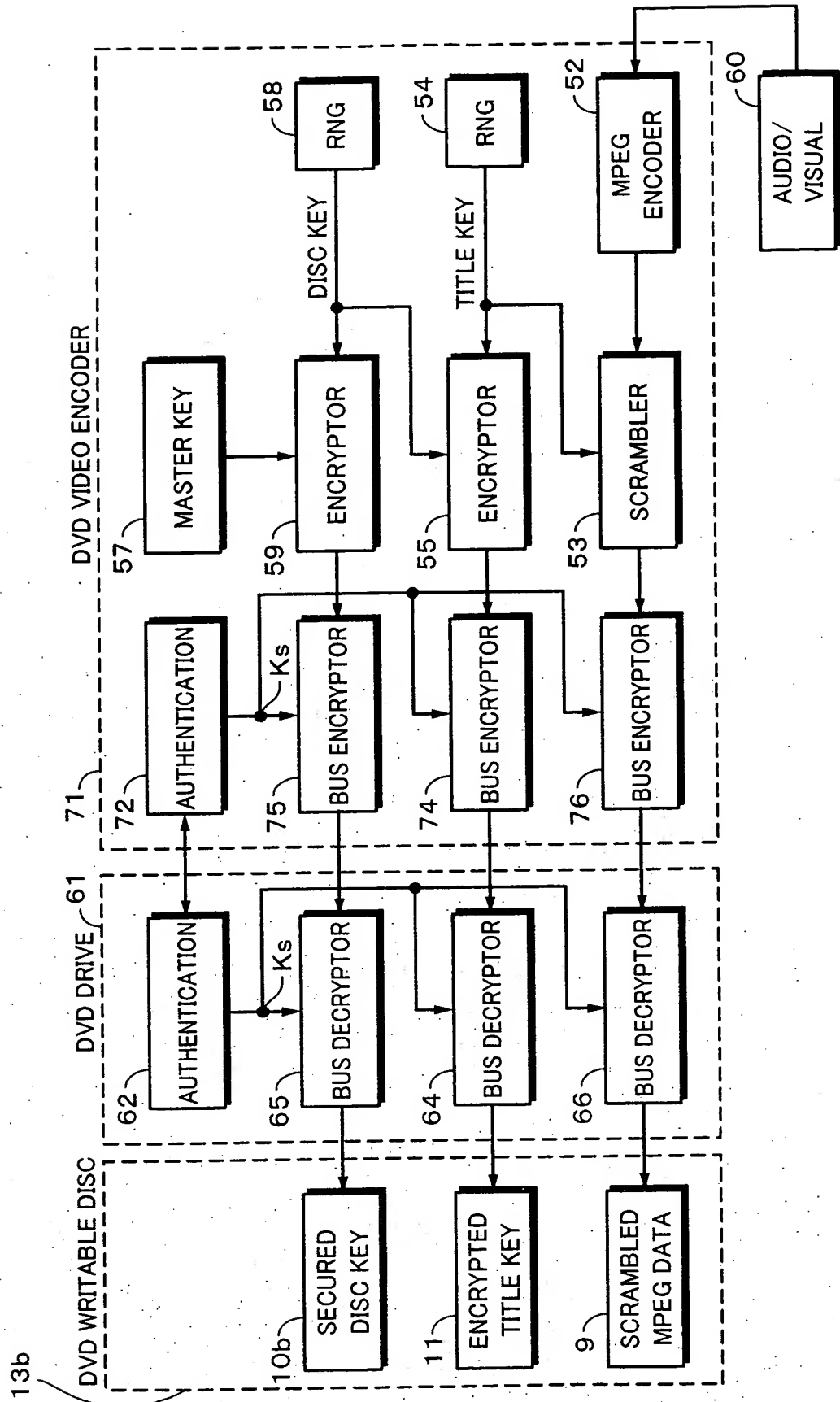
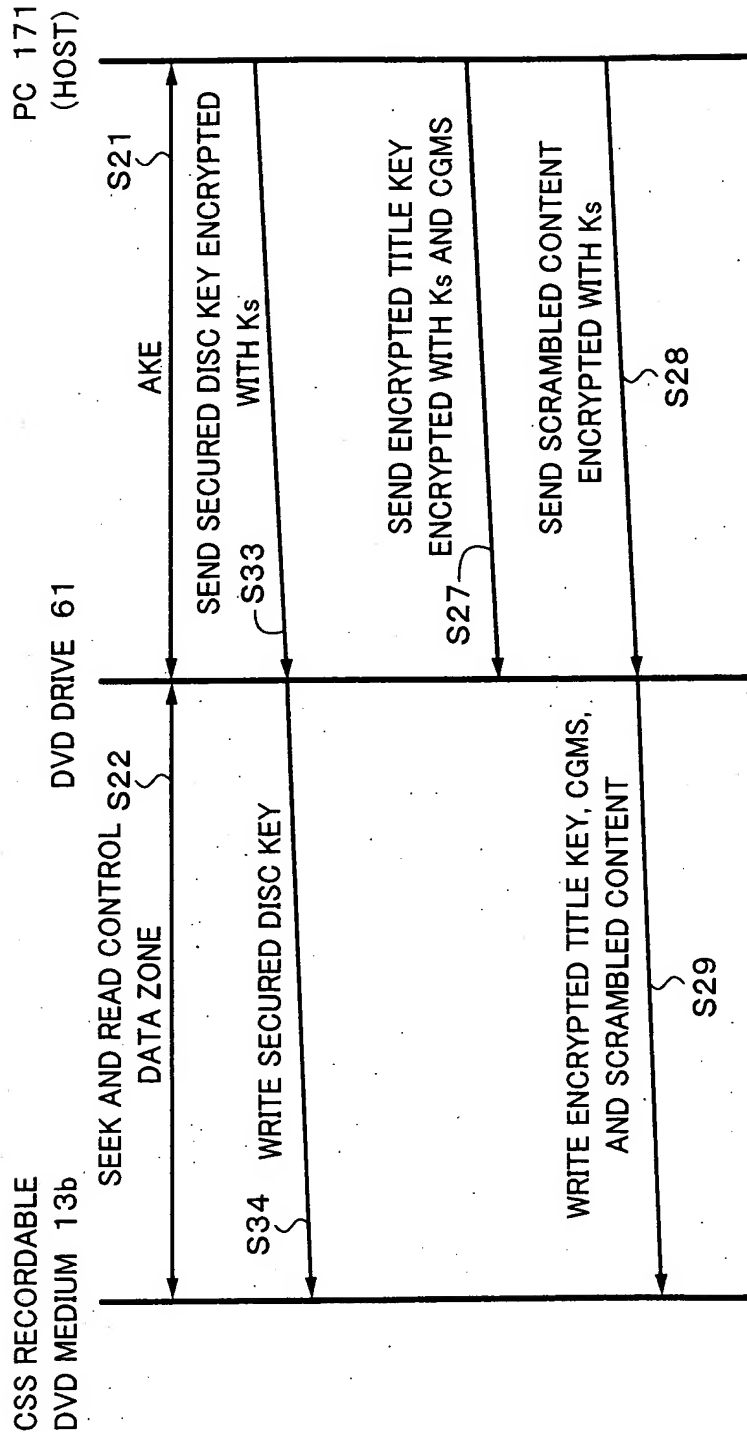


Fig. 16

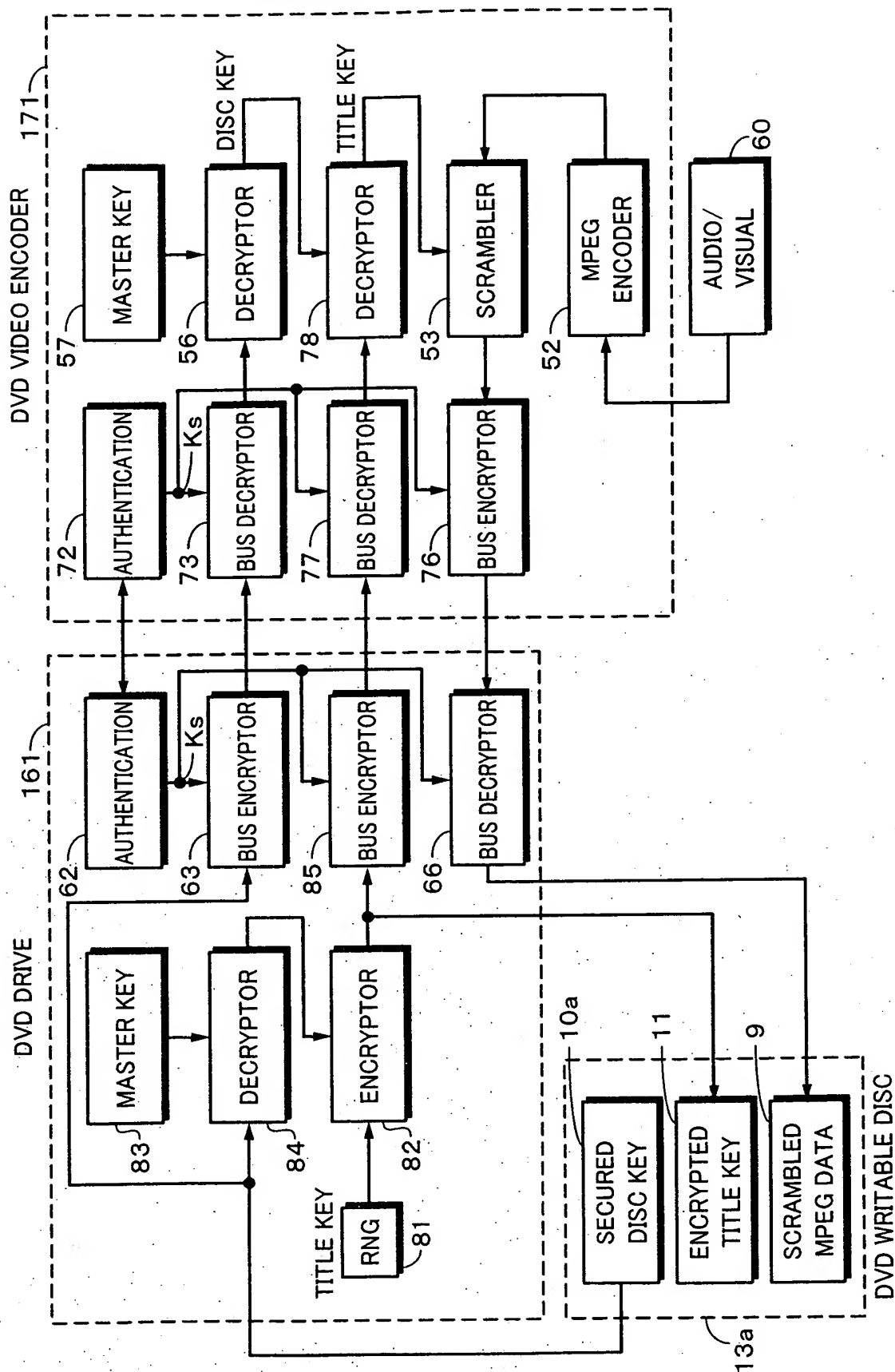




**Fig. 17**



**Fig. 18**



**Fig. 19**

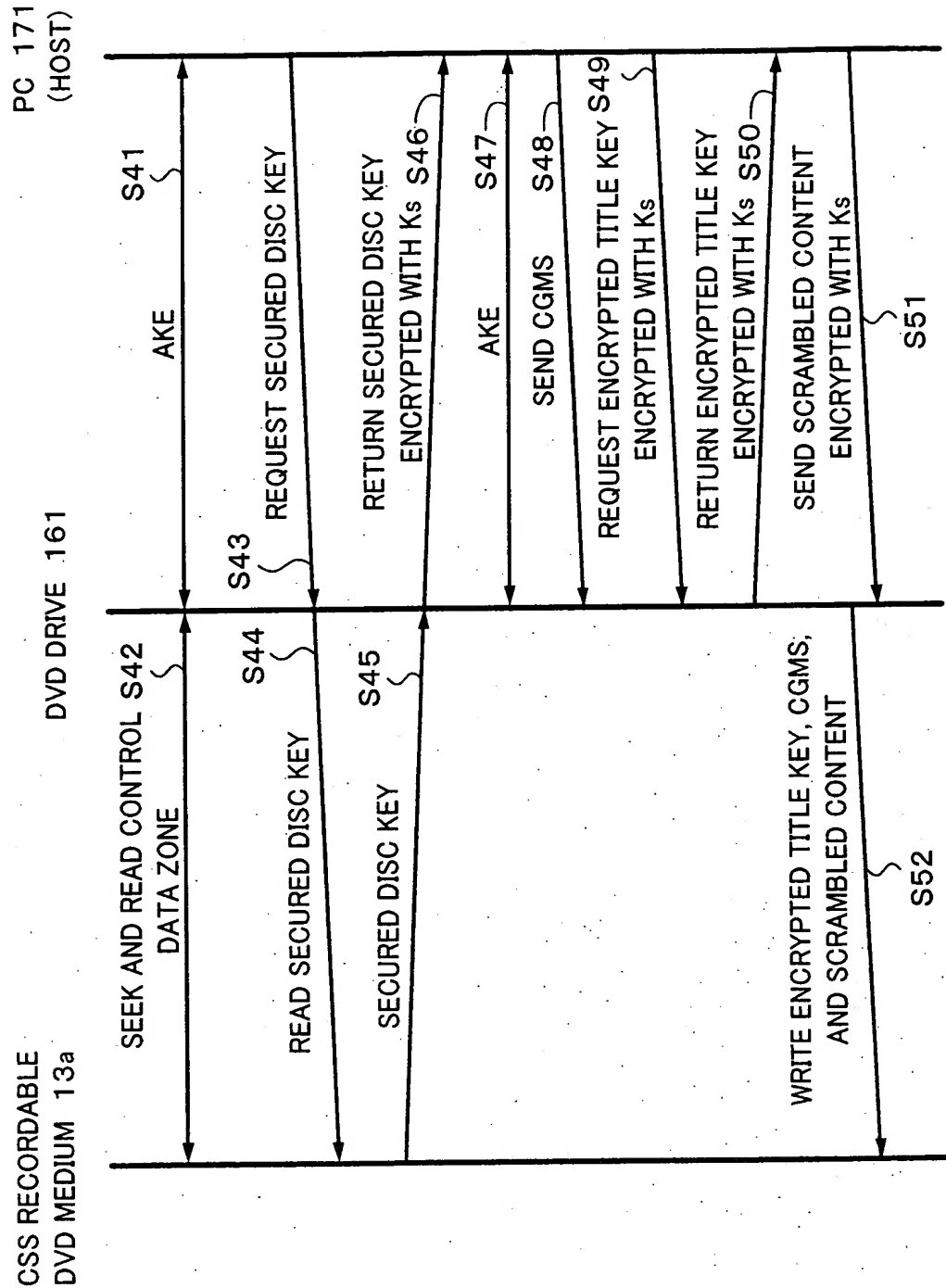
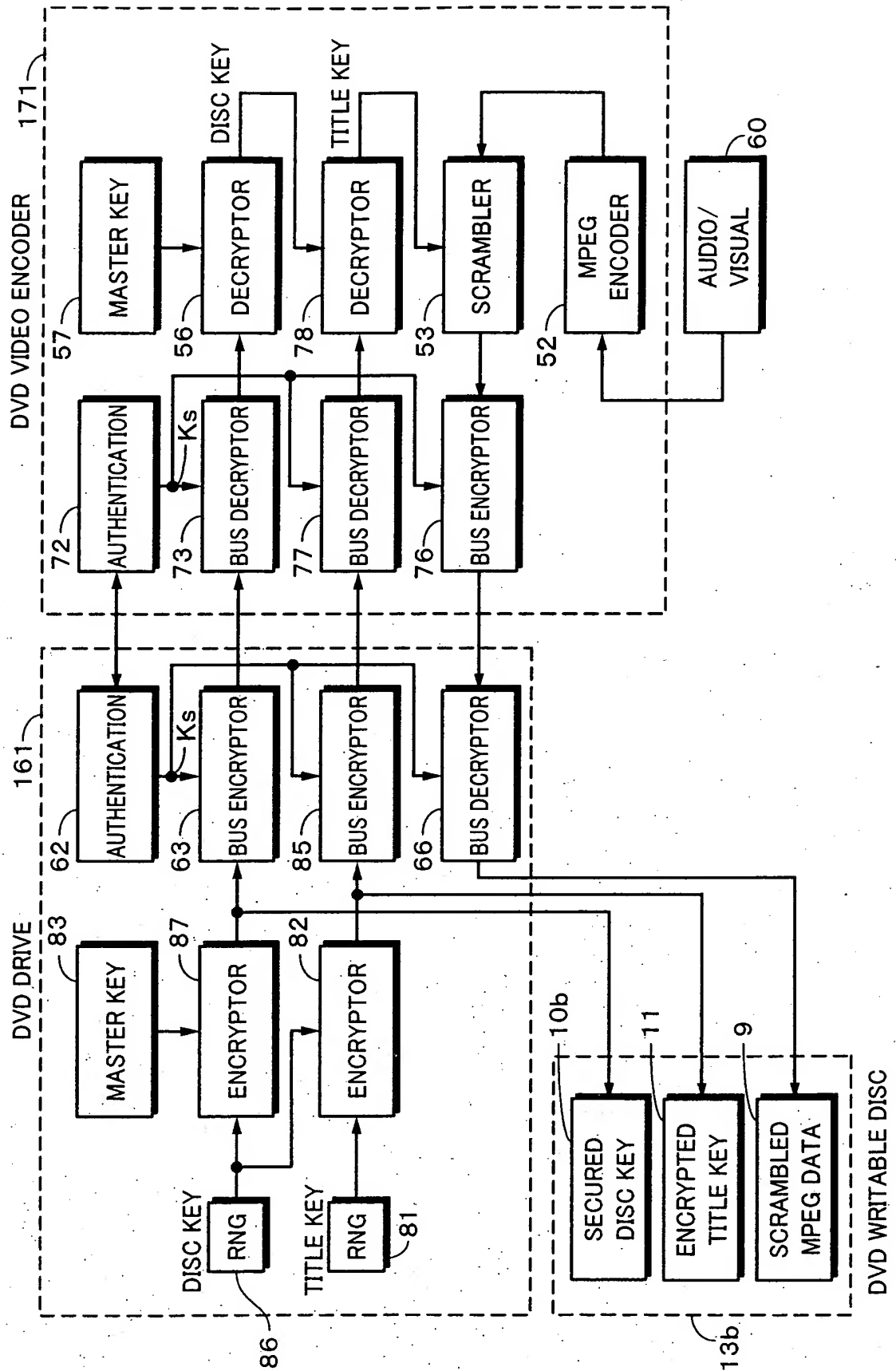
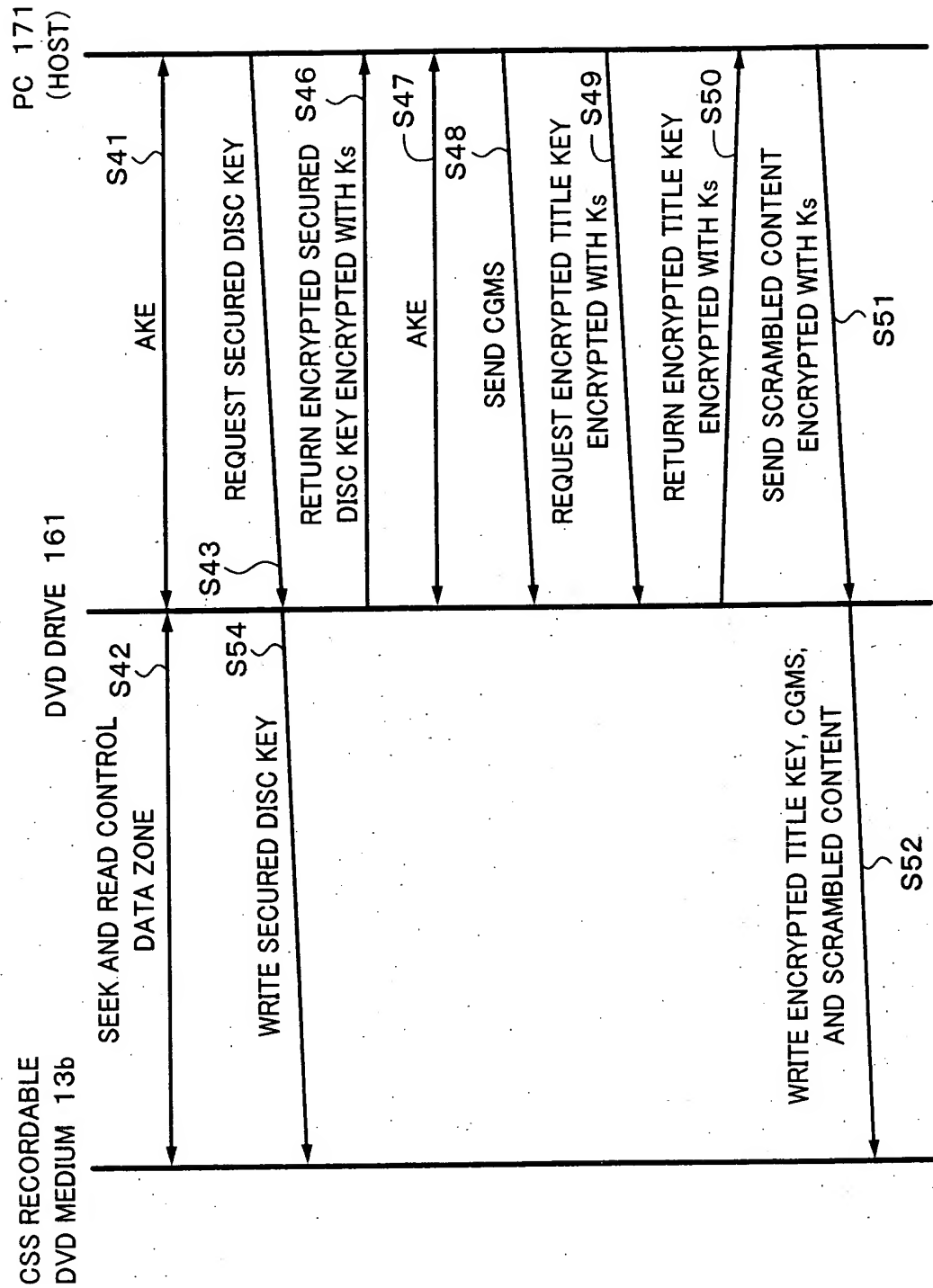


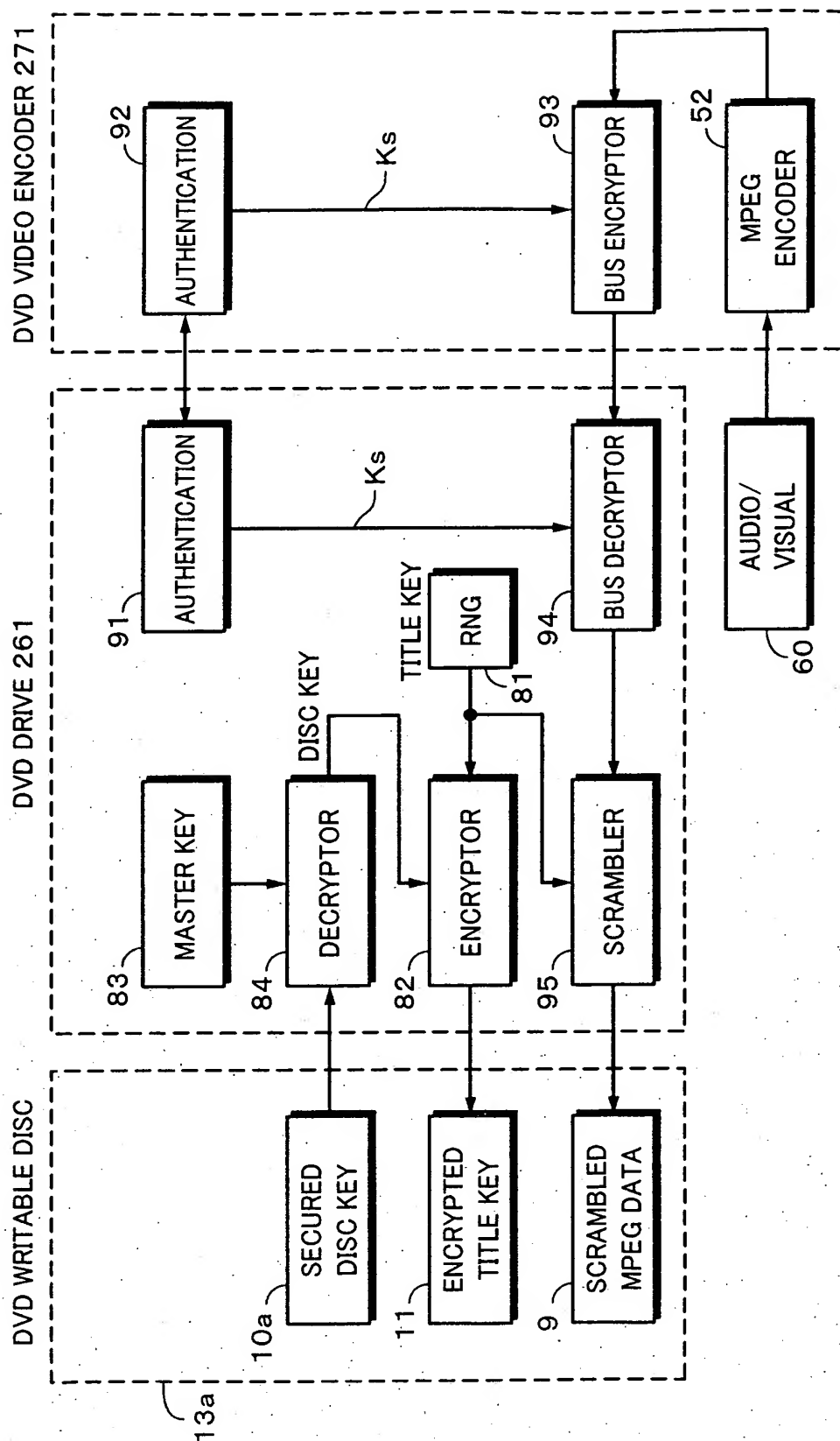
Fig. 20



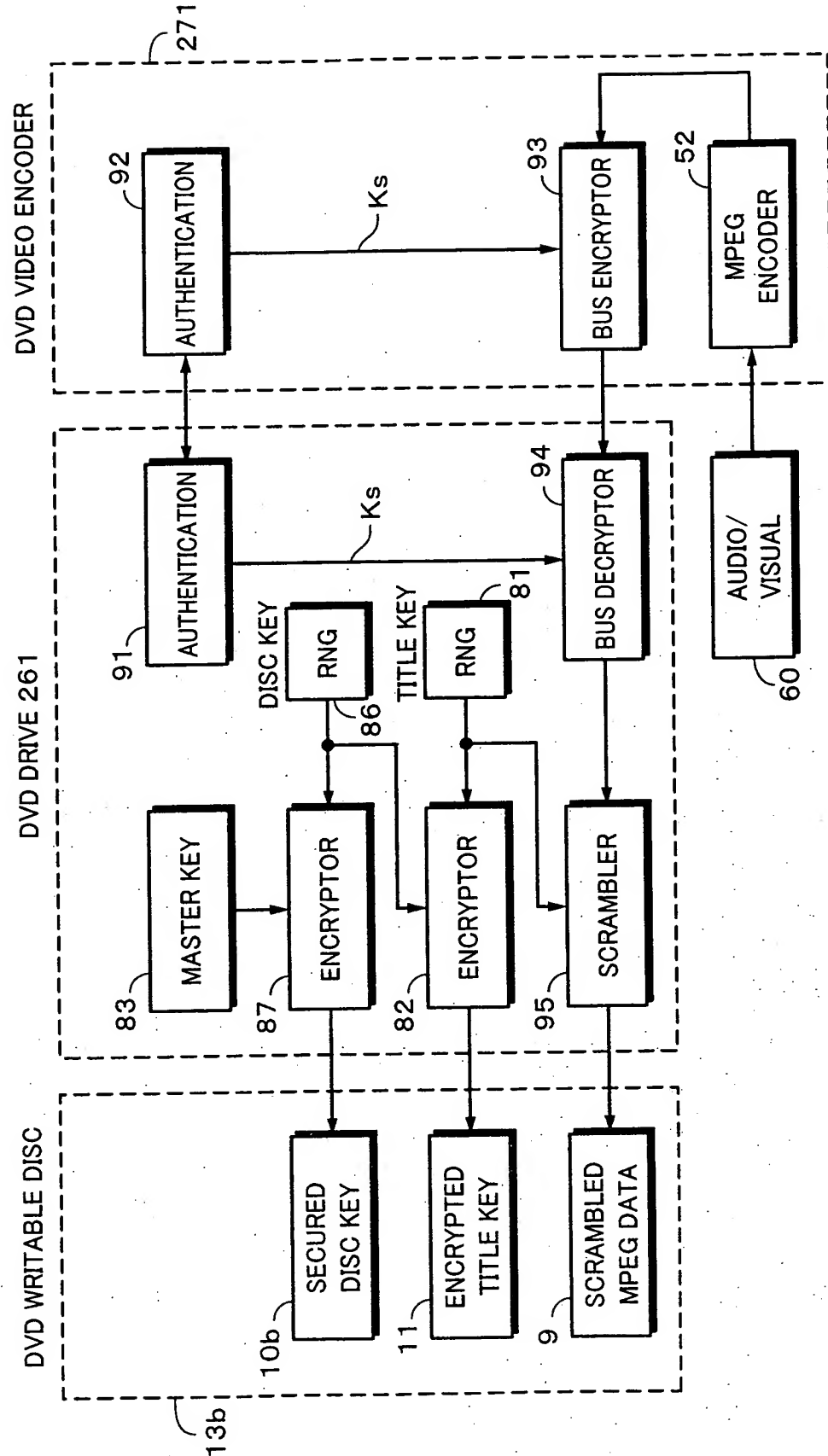
**Fig. 21**



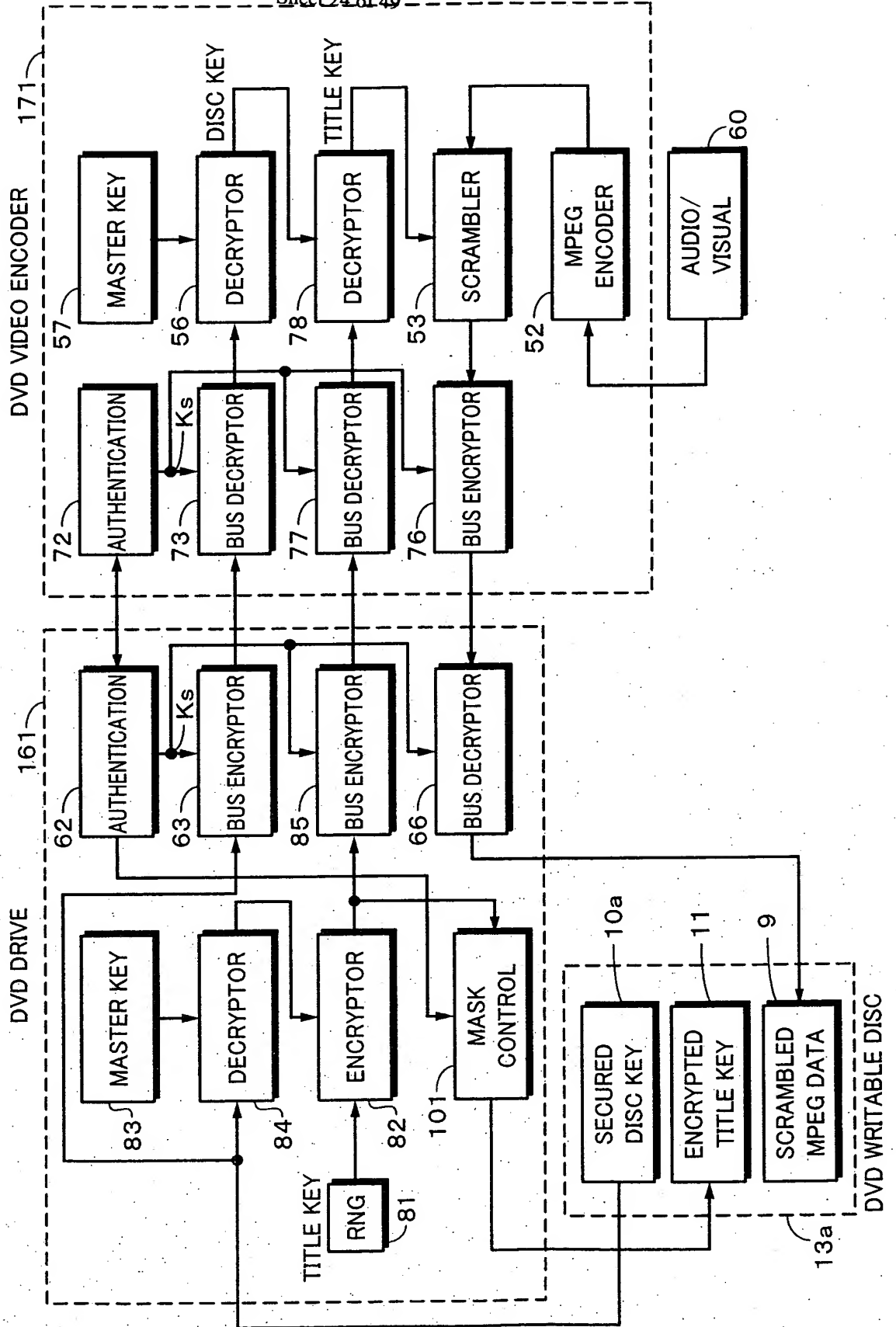
**Fig. 22**



**Fig. 23**

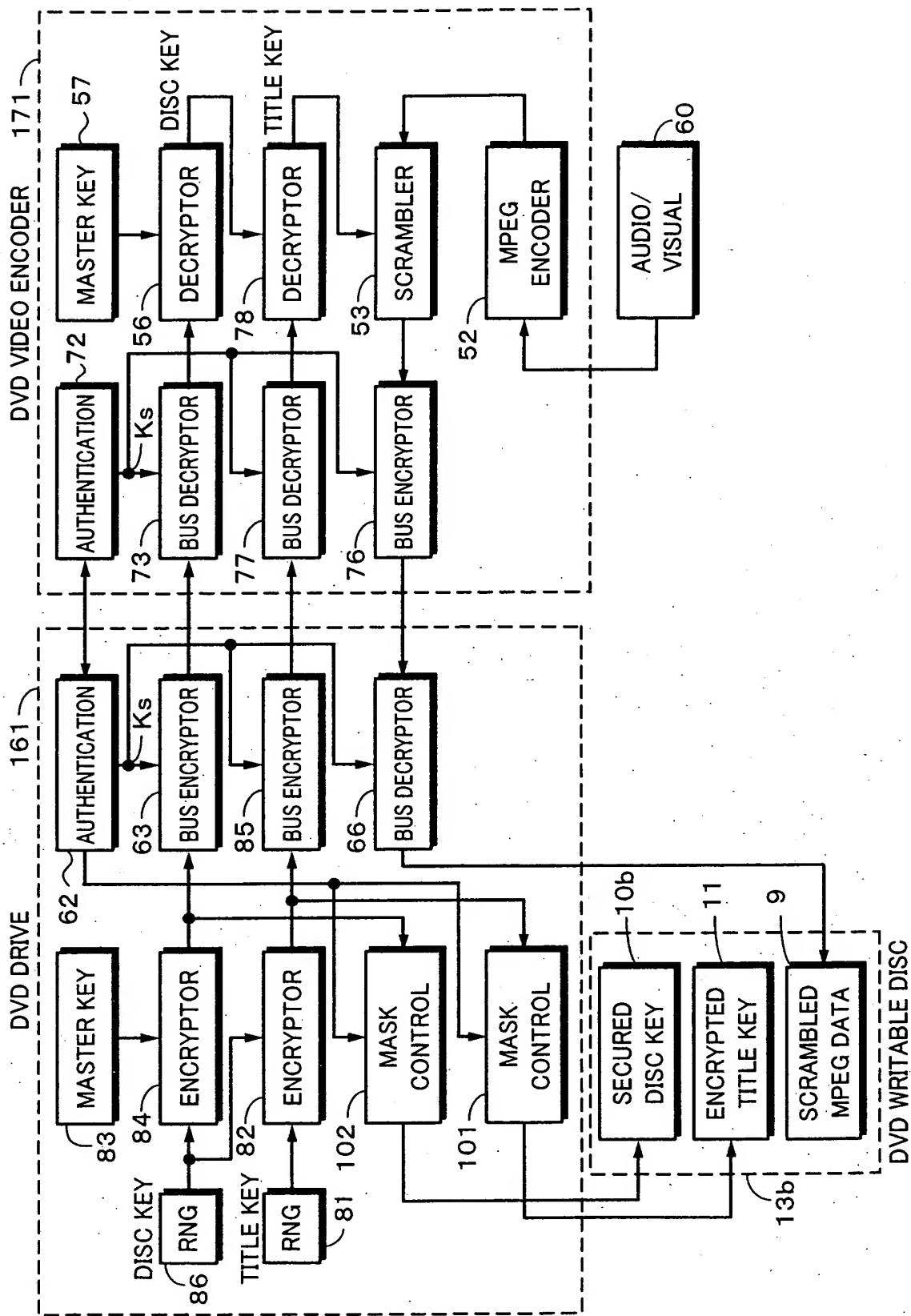


**Fig. 24**





**Fig. 25**



**Fig. 26**

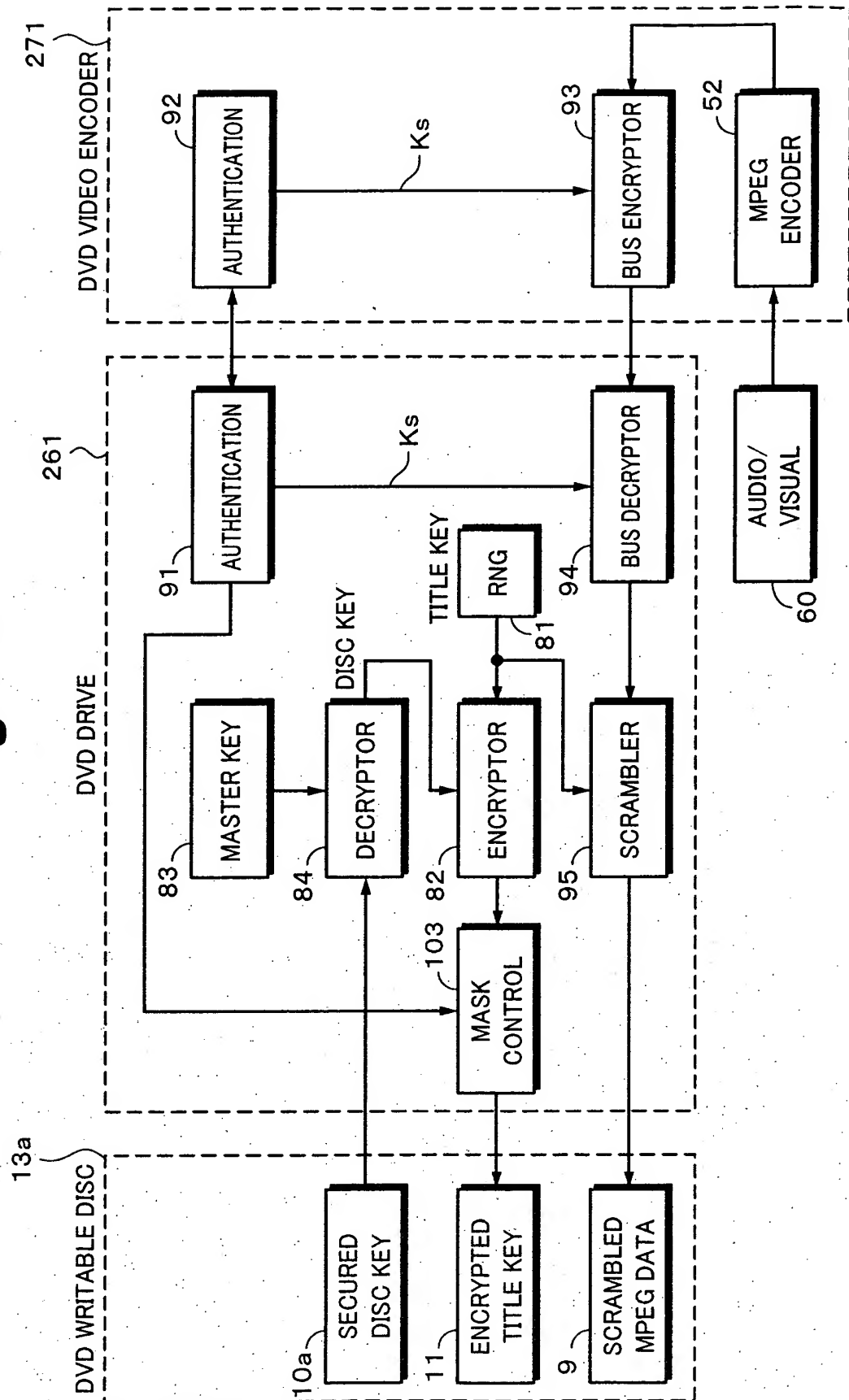


Fig. 27

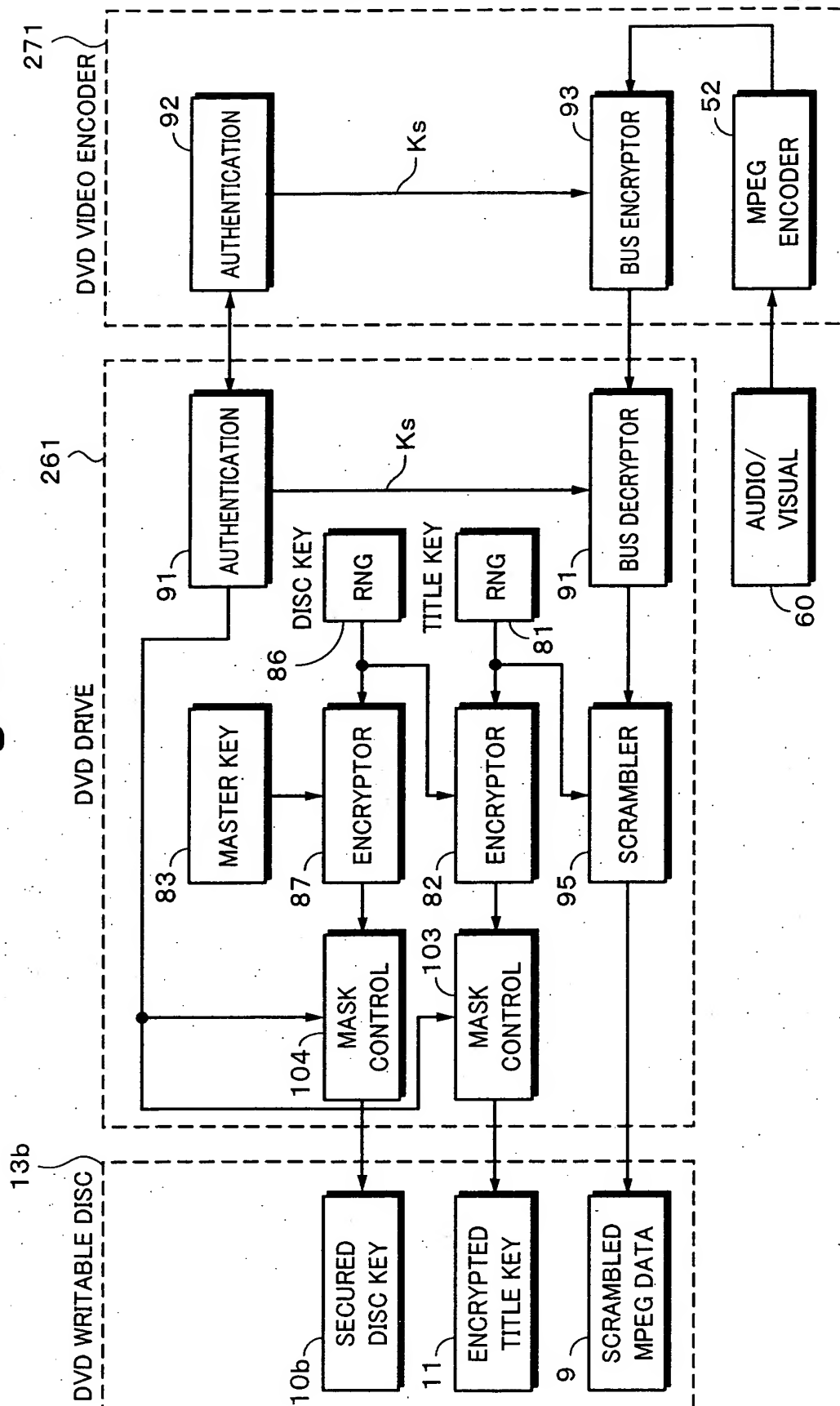
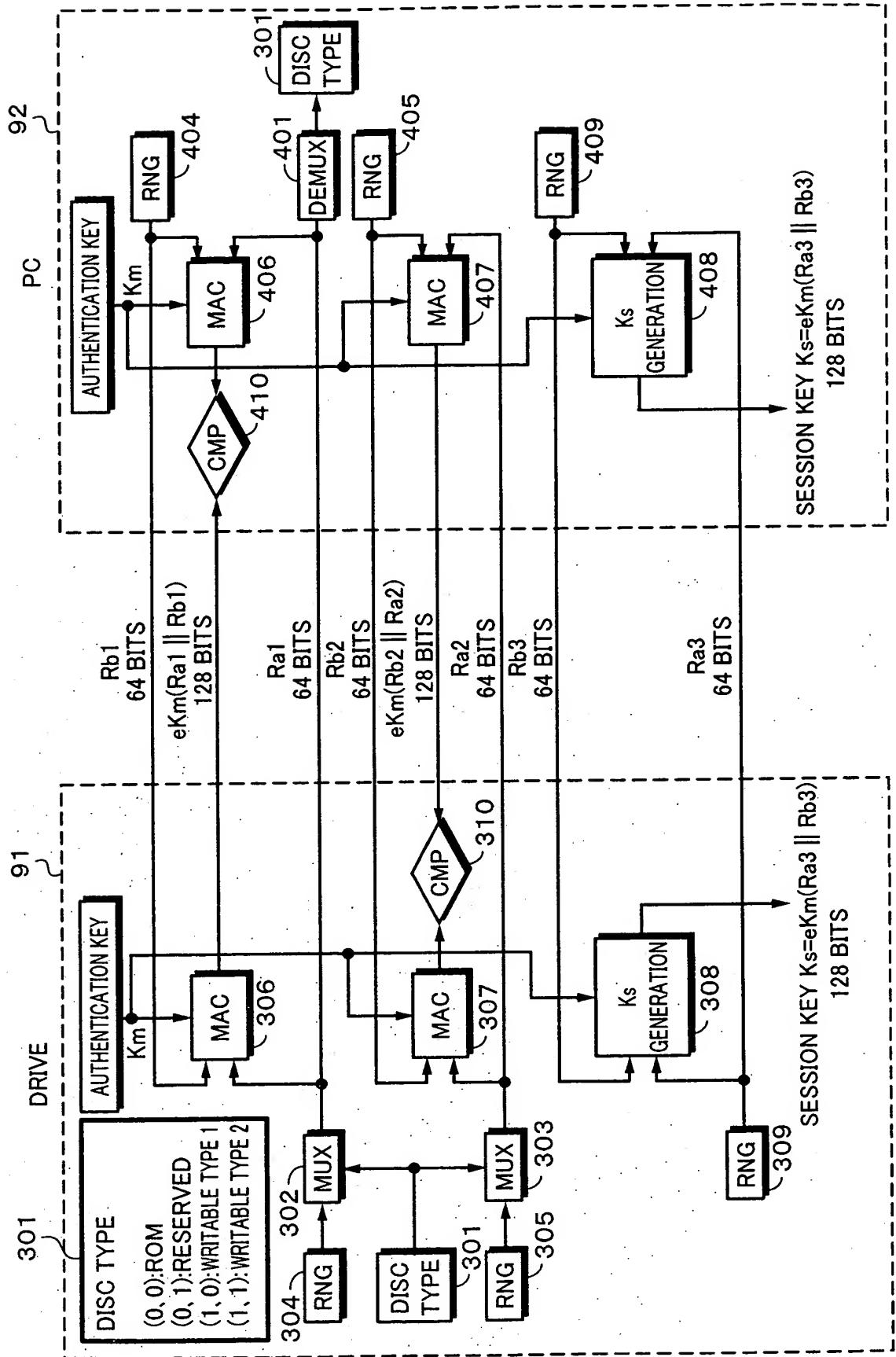
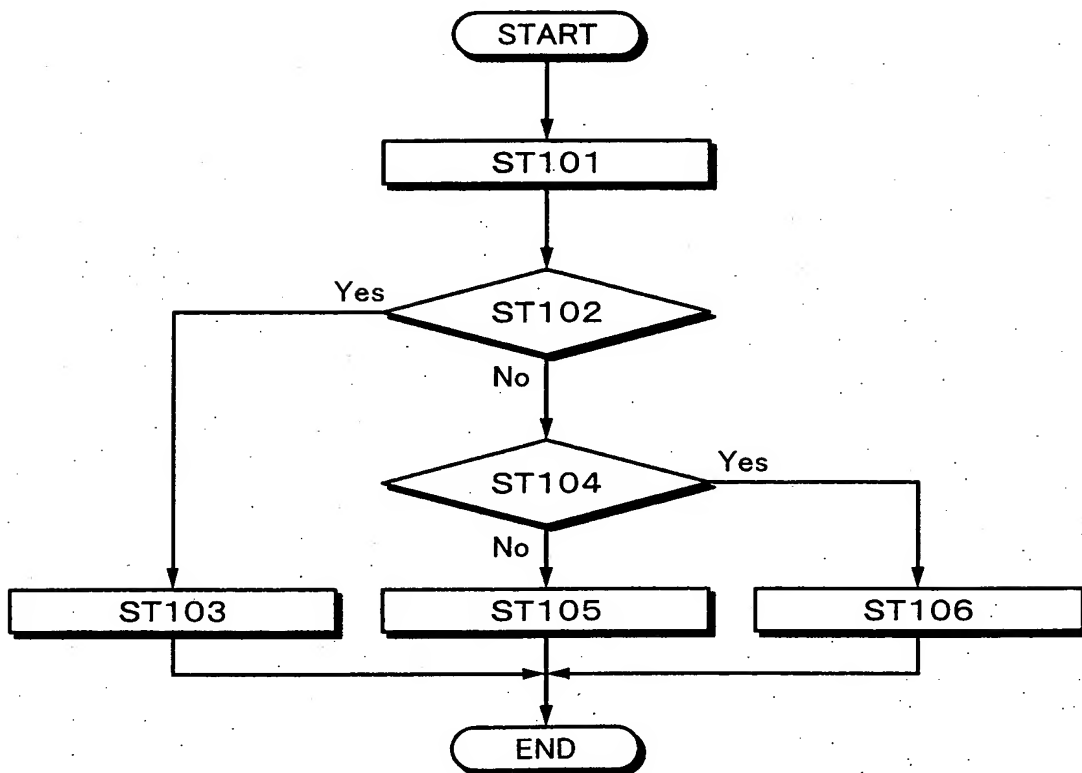


Fig. 28



**Fig. 29**



**Fig. 30**

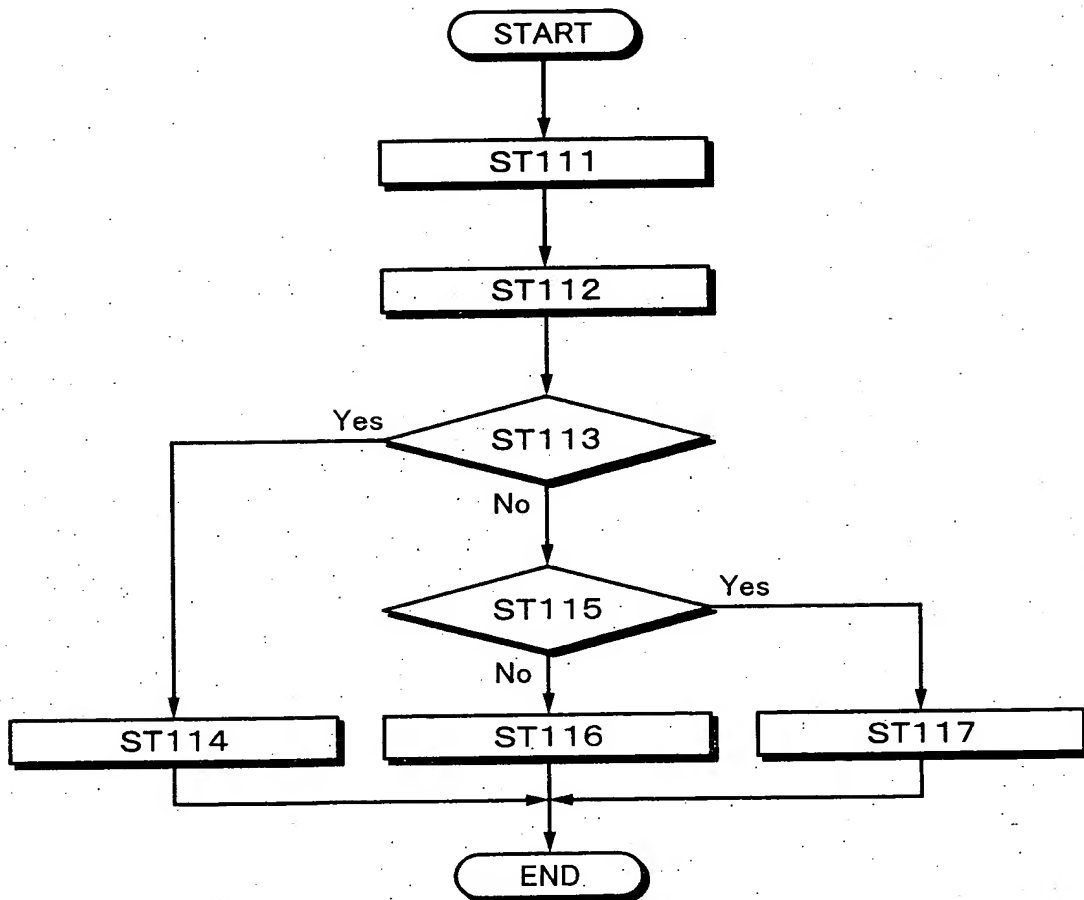
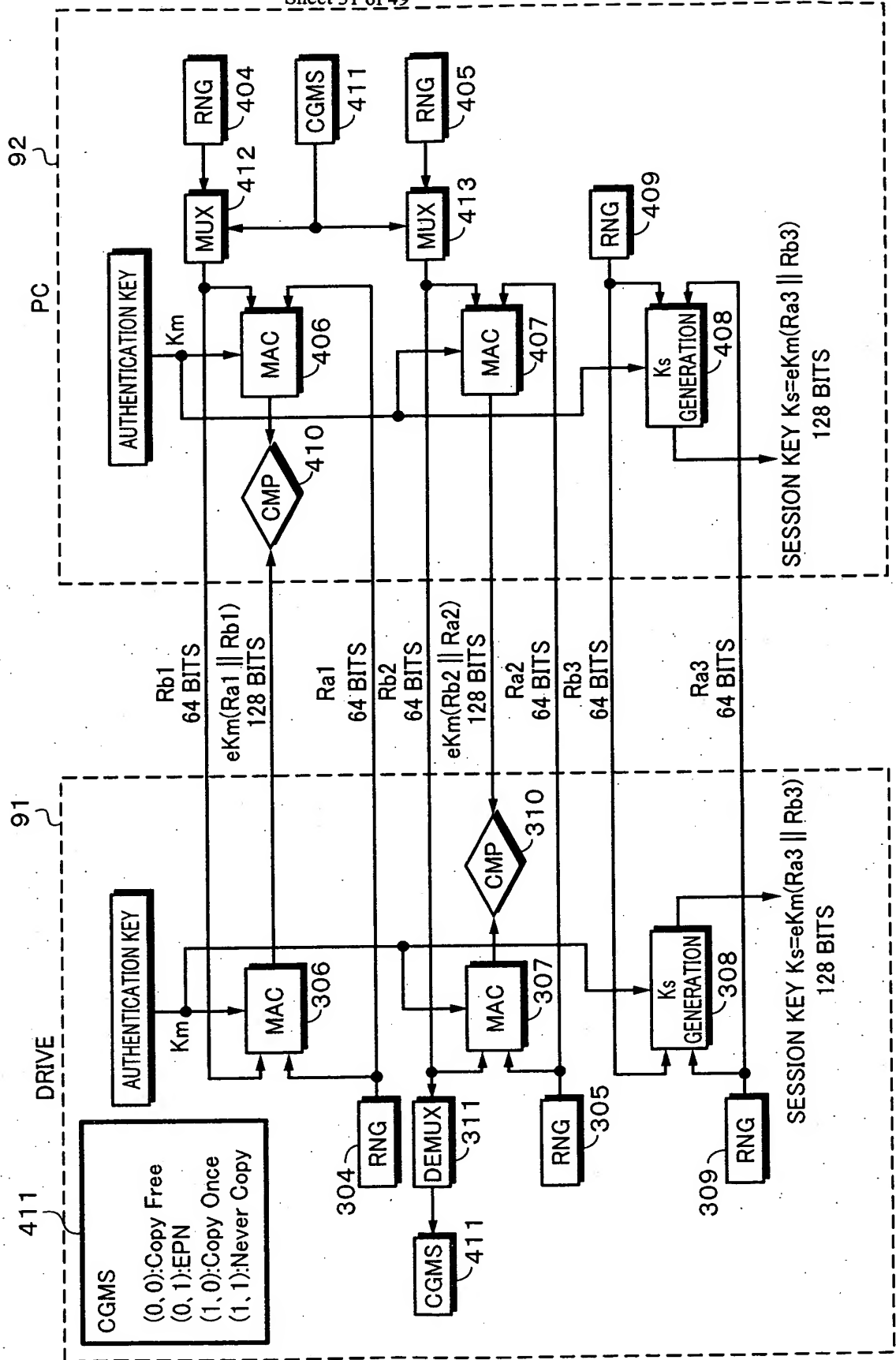
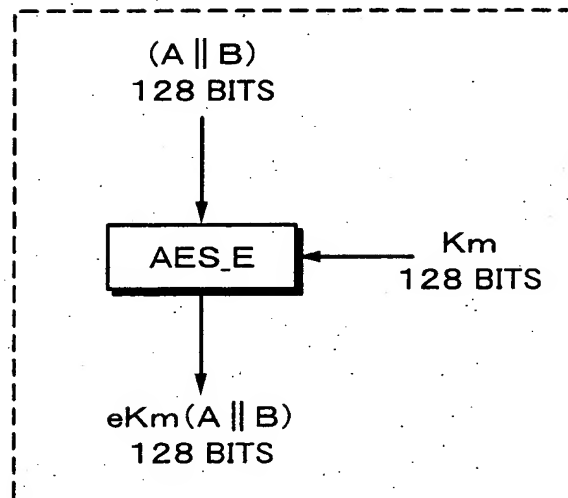


Fig. 31

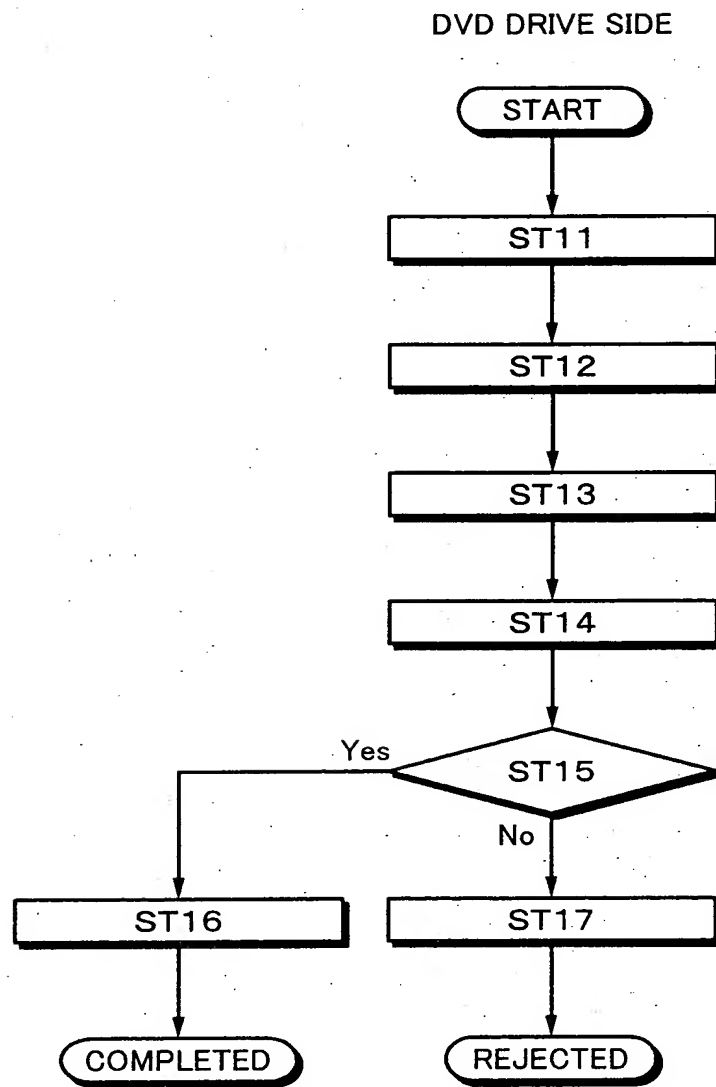


**Fig. 32**

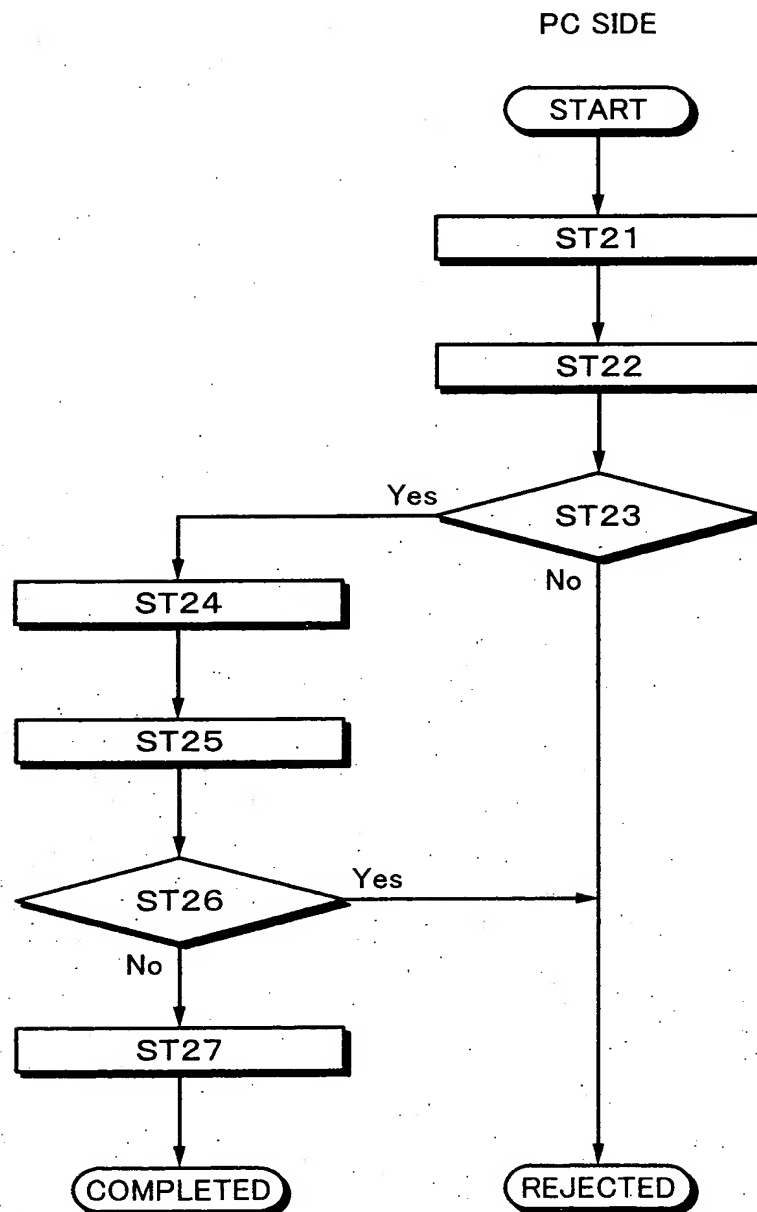




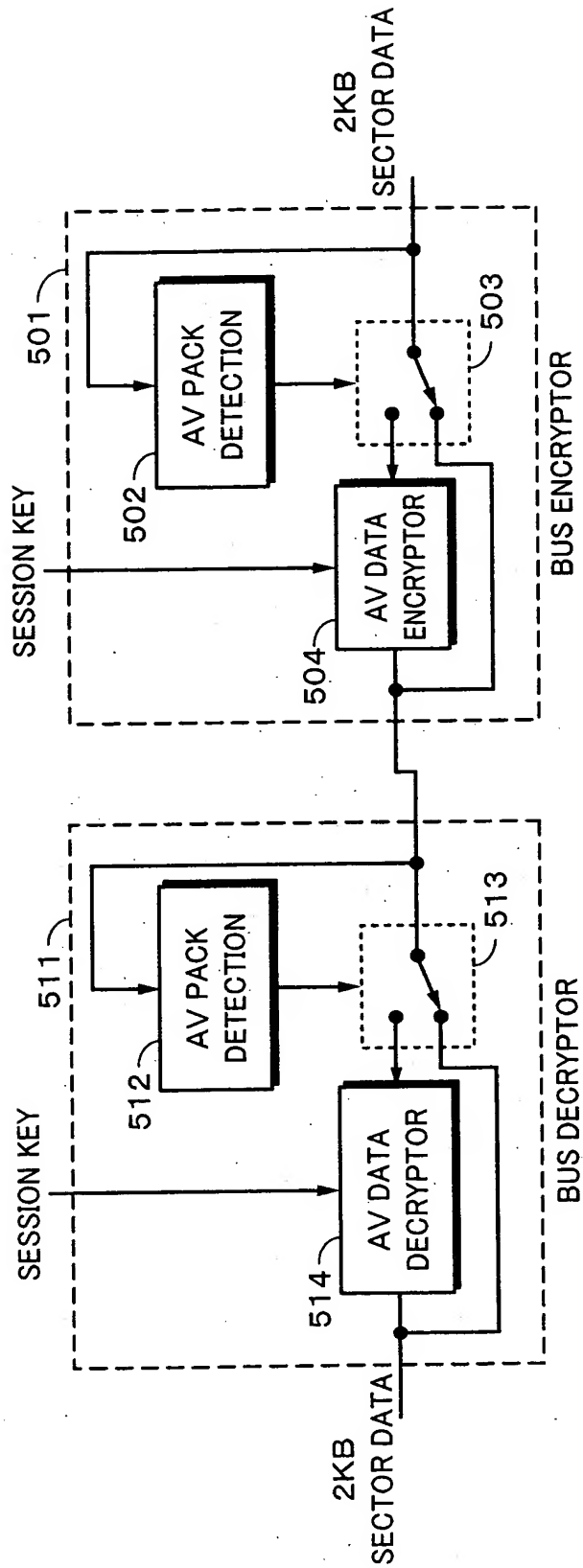
**Fig. 33**



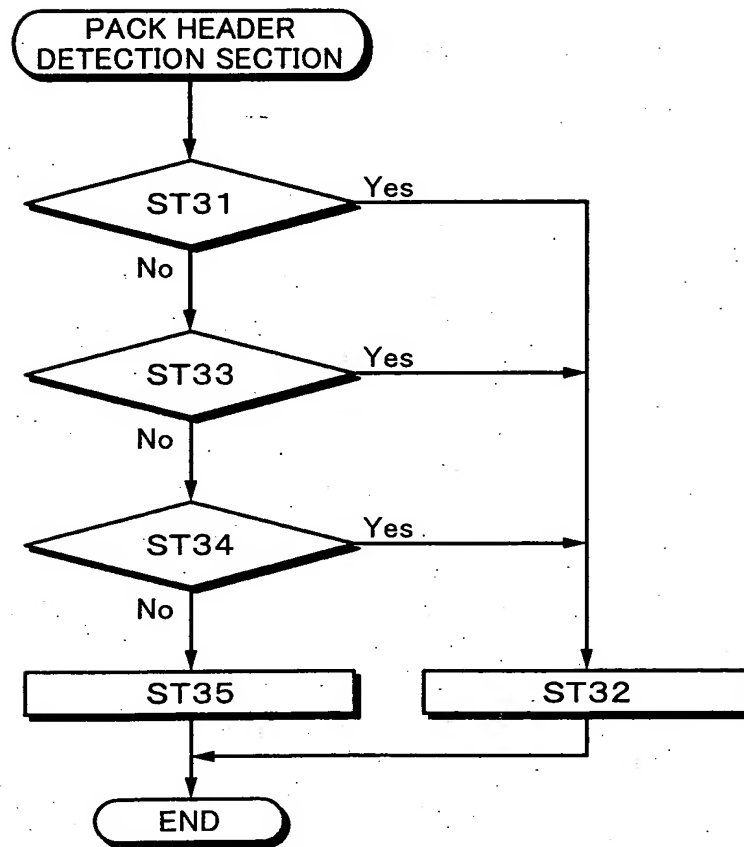
**Fig. 34**



**Fig. 35**



**Fig. 36**



**Fig. 37**

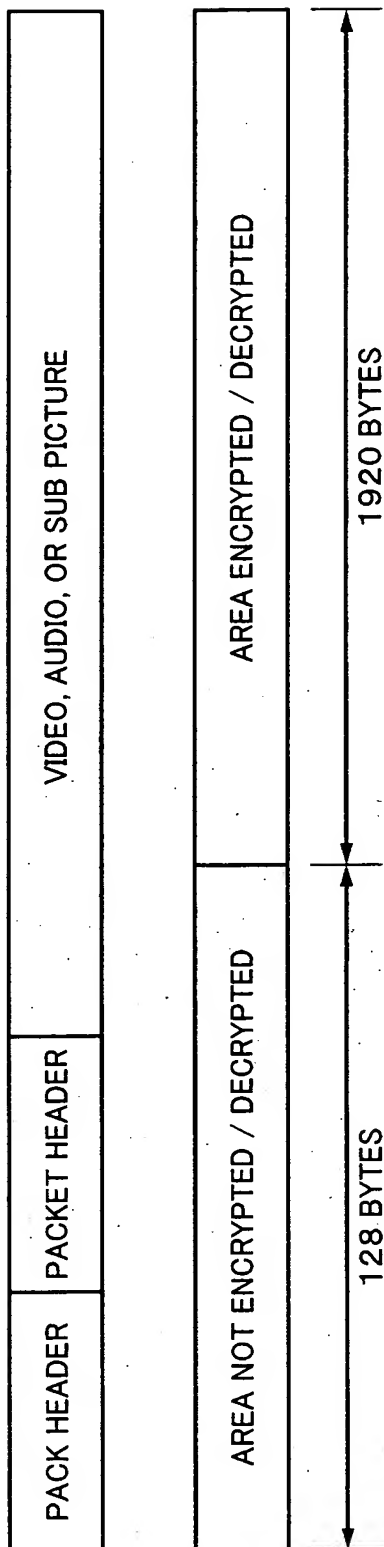
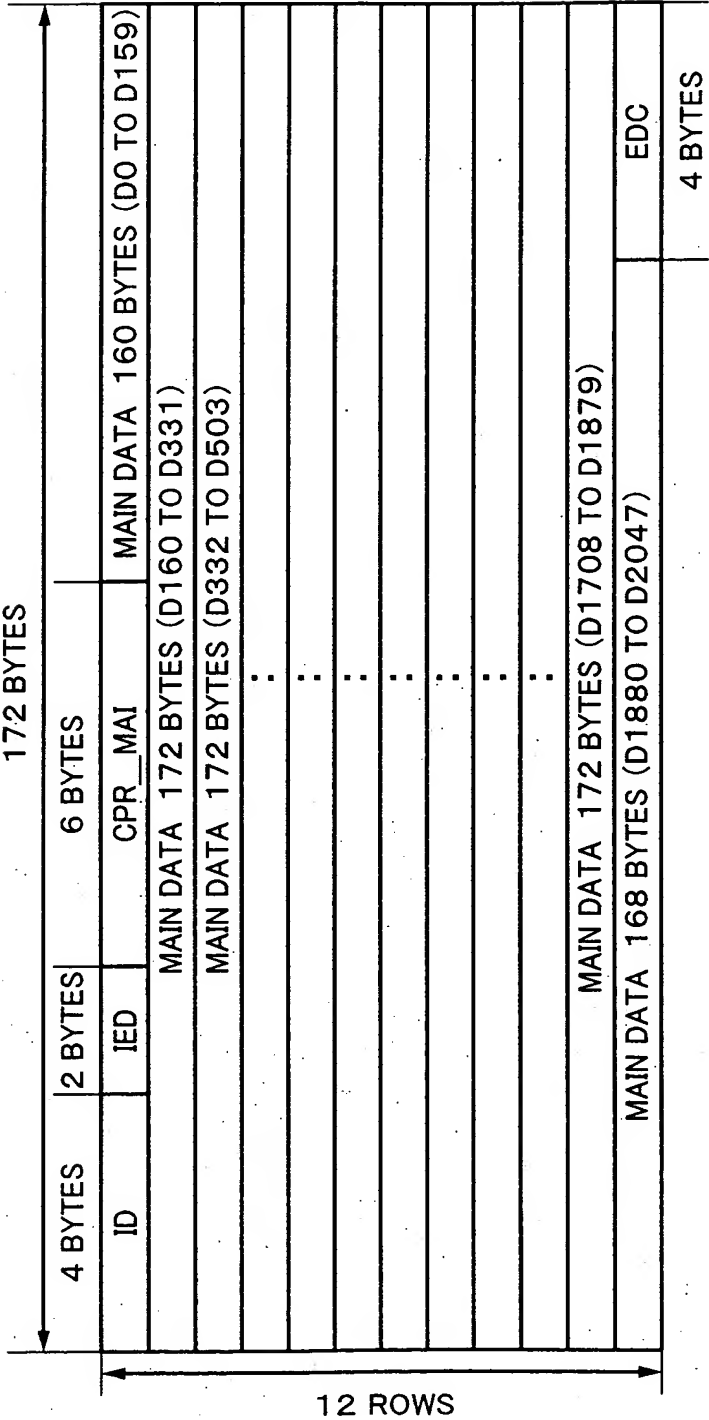
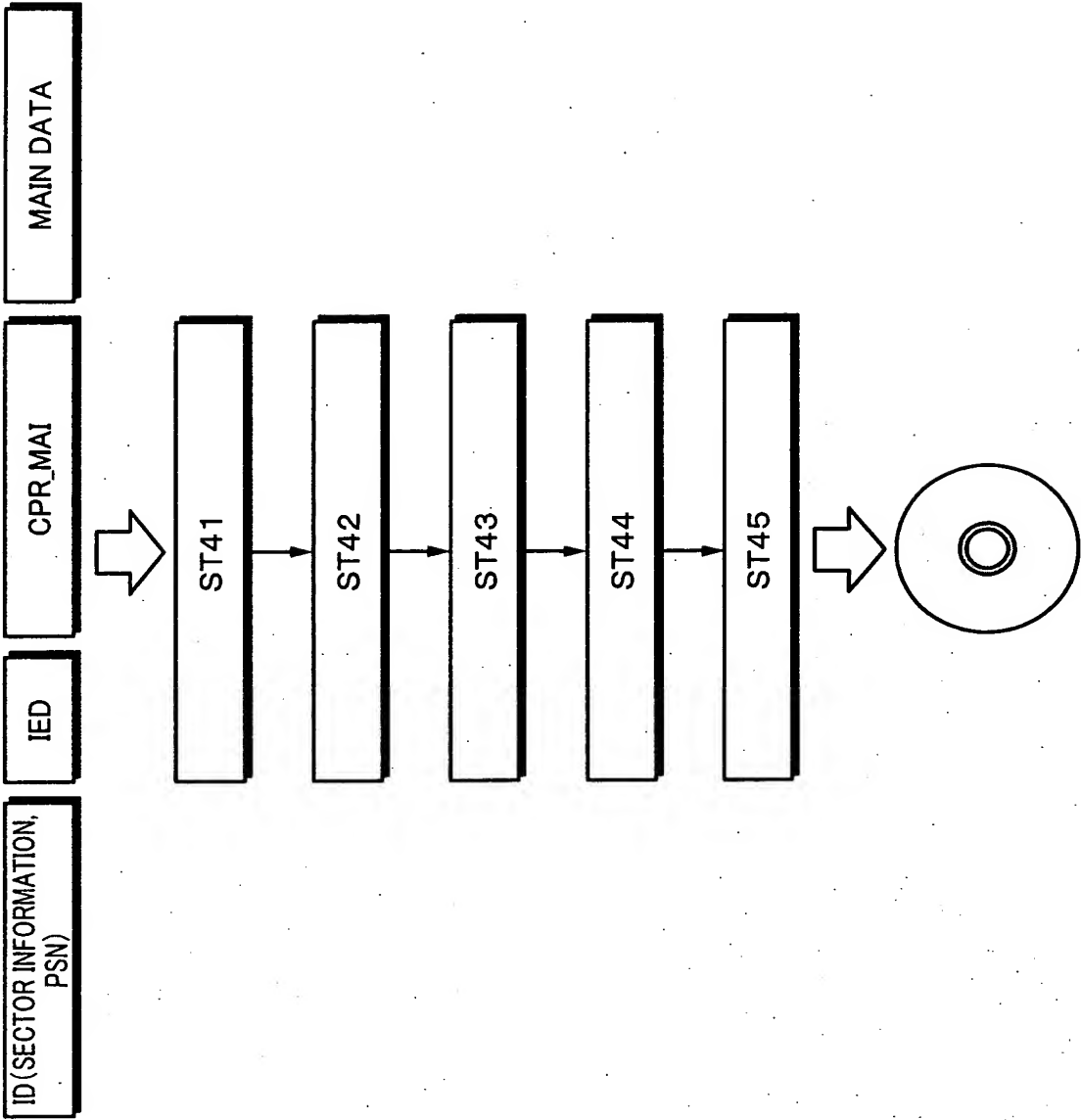


Fig. 38

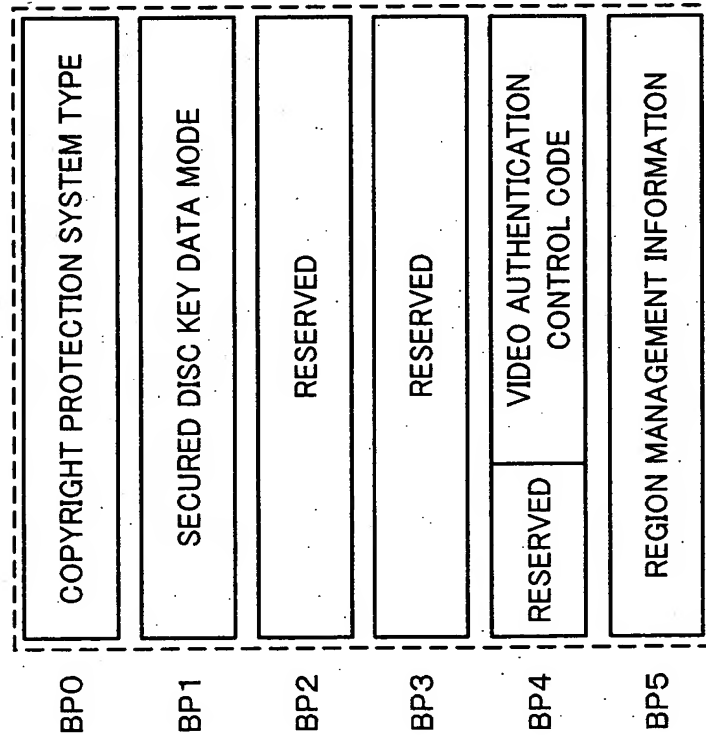


EXAMPLE OF STRUCTURE OF SECTOR

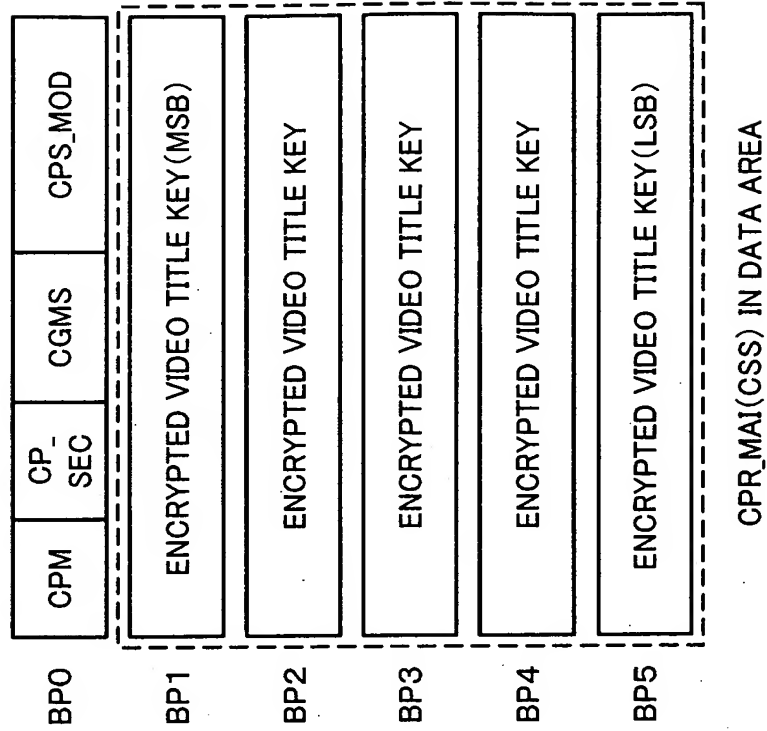
Fig. 39



**Fig. 40A**

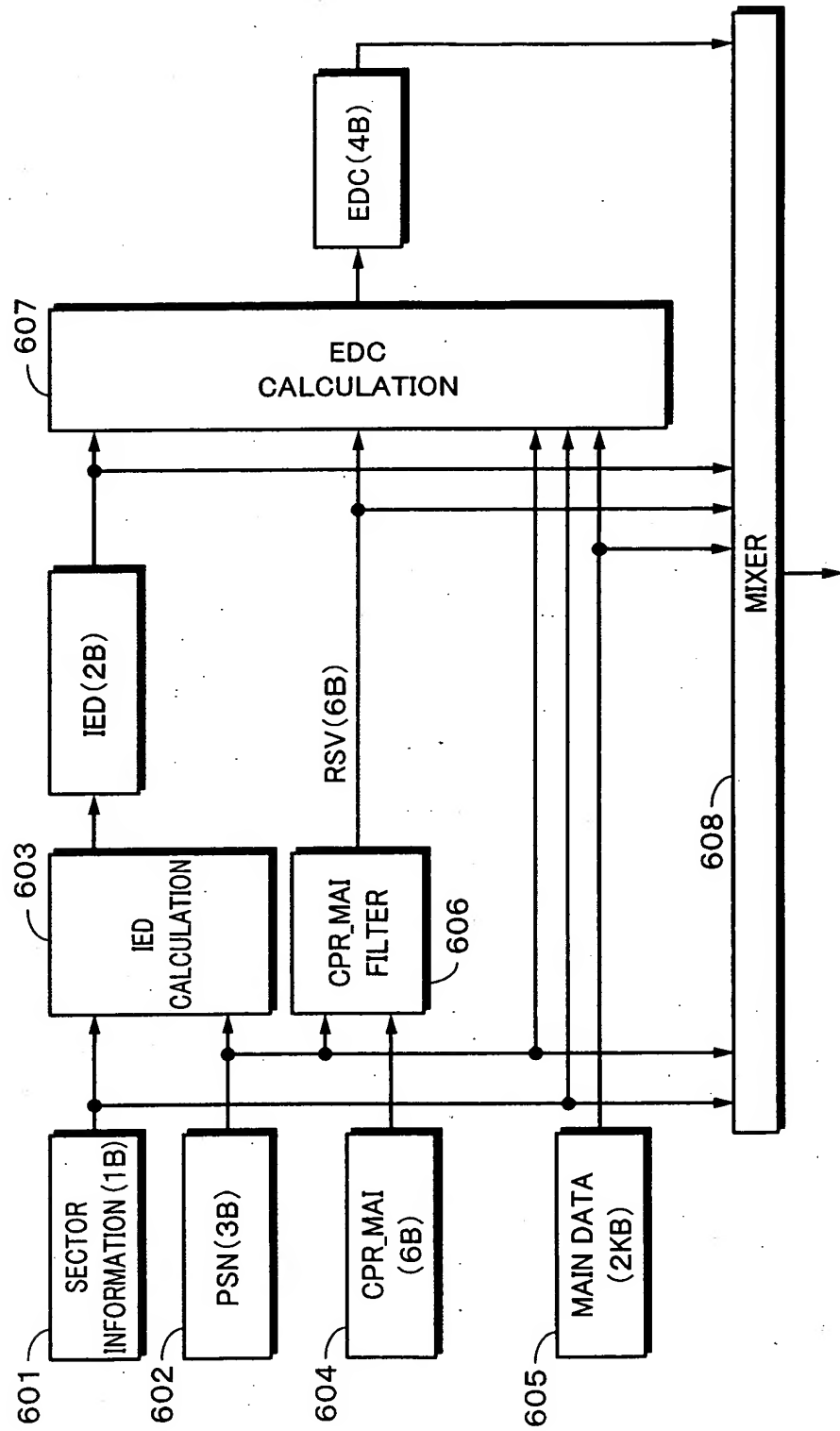


**Fig. 40B**

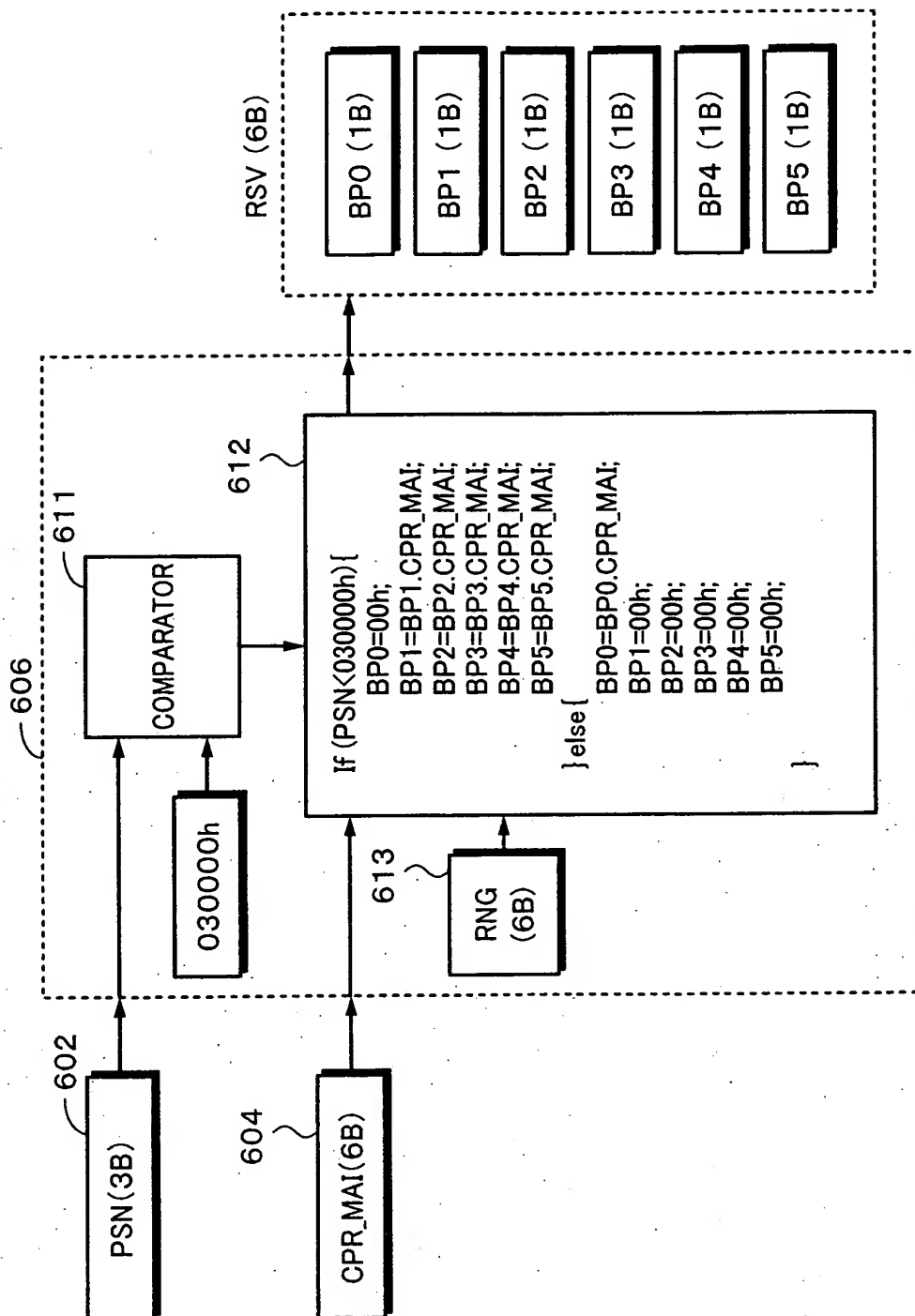




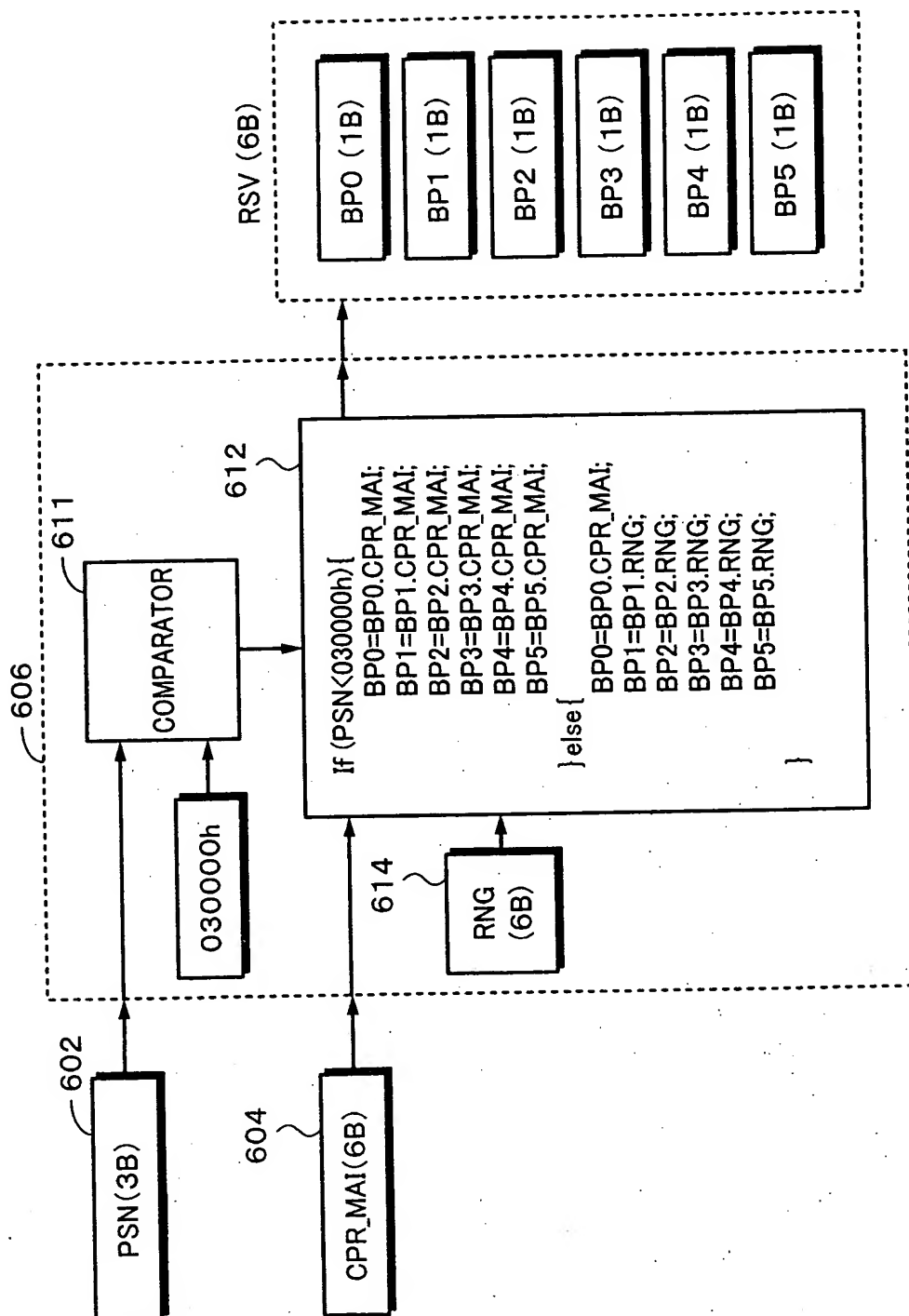
**Fig. 41**



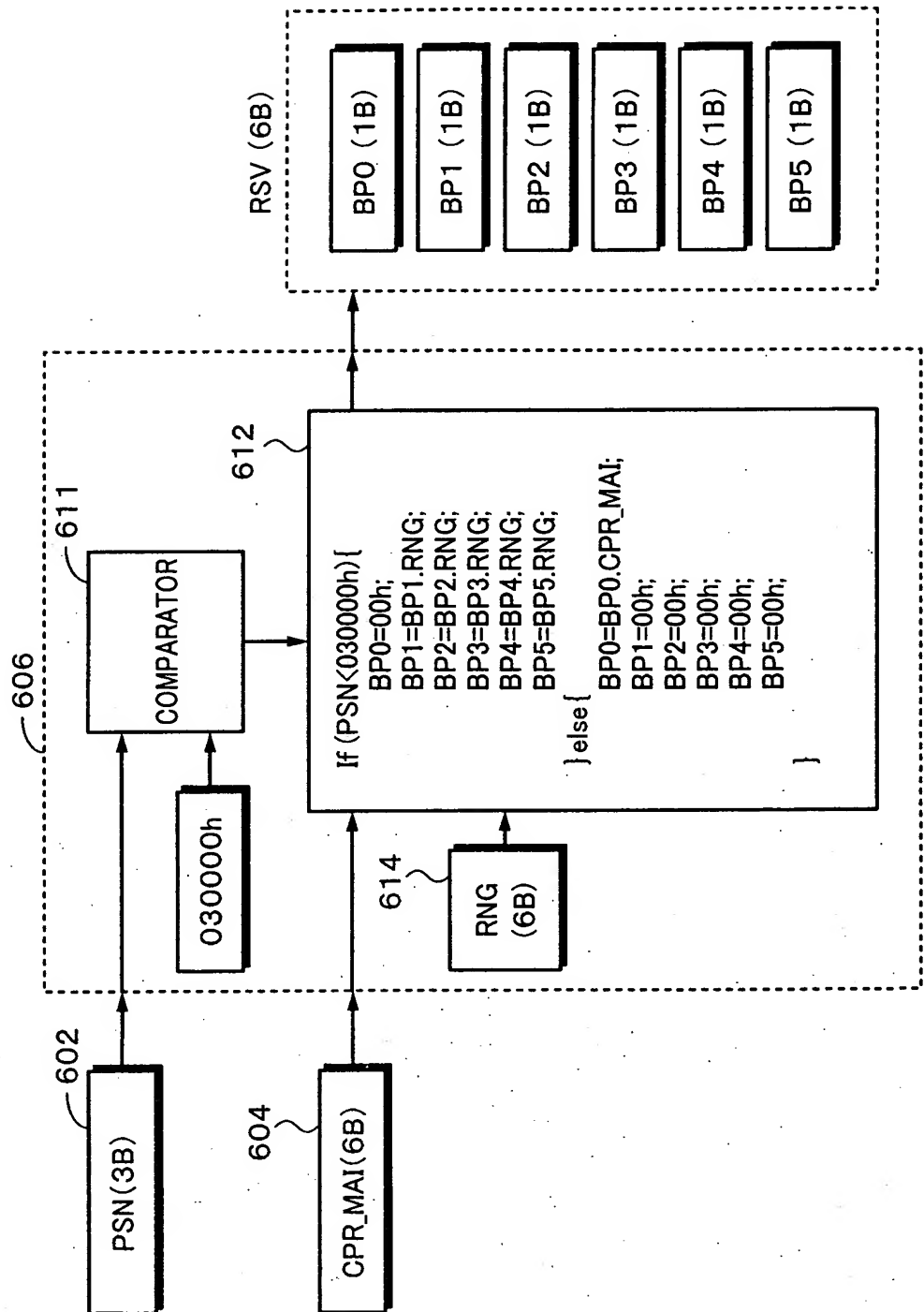
**Fig. 42**



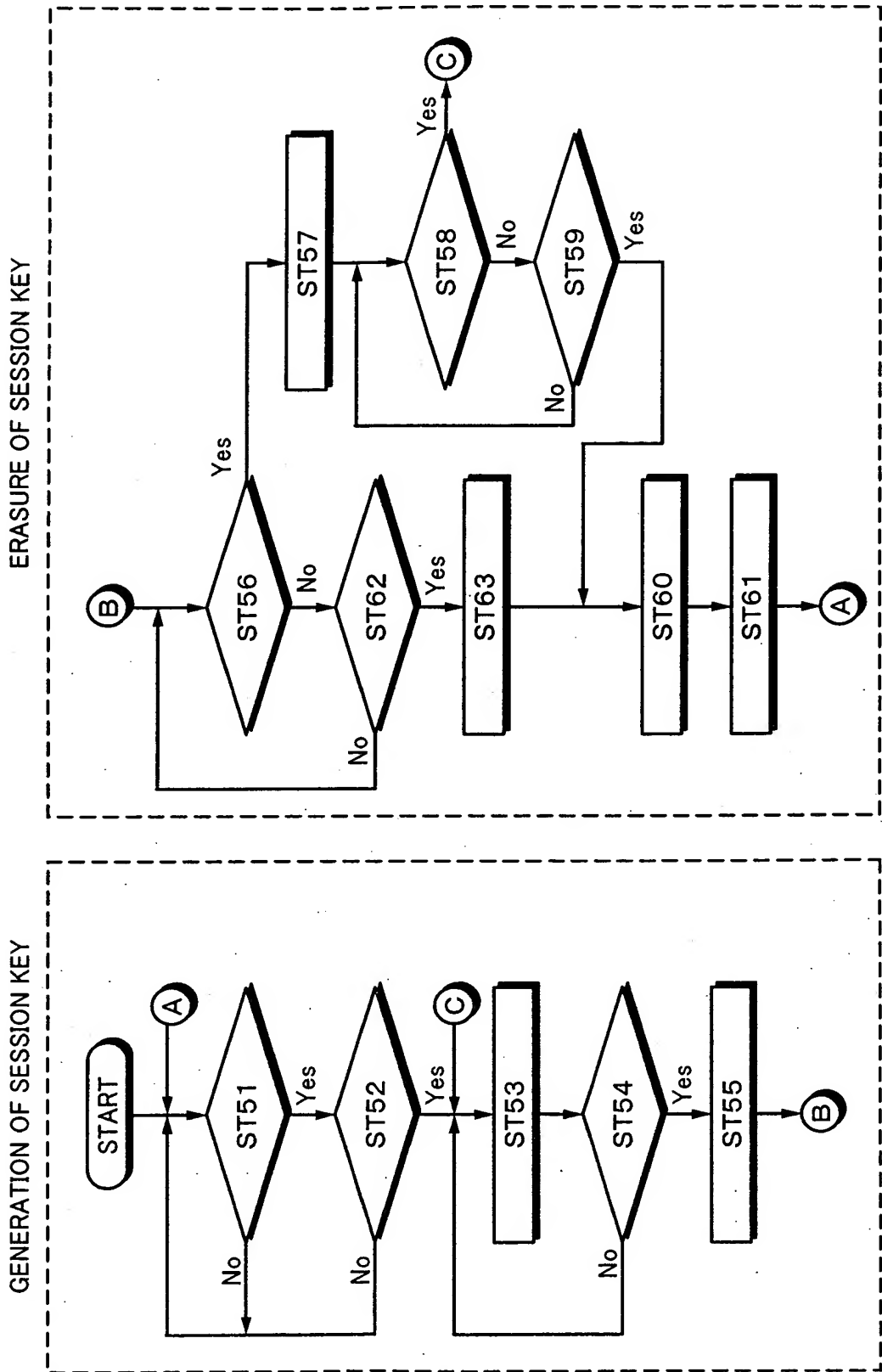
**Fig. 43**



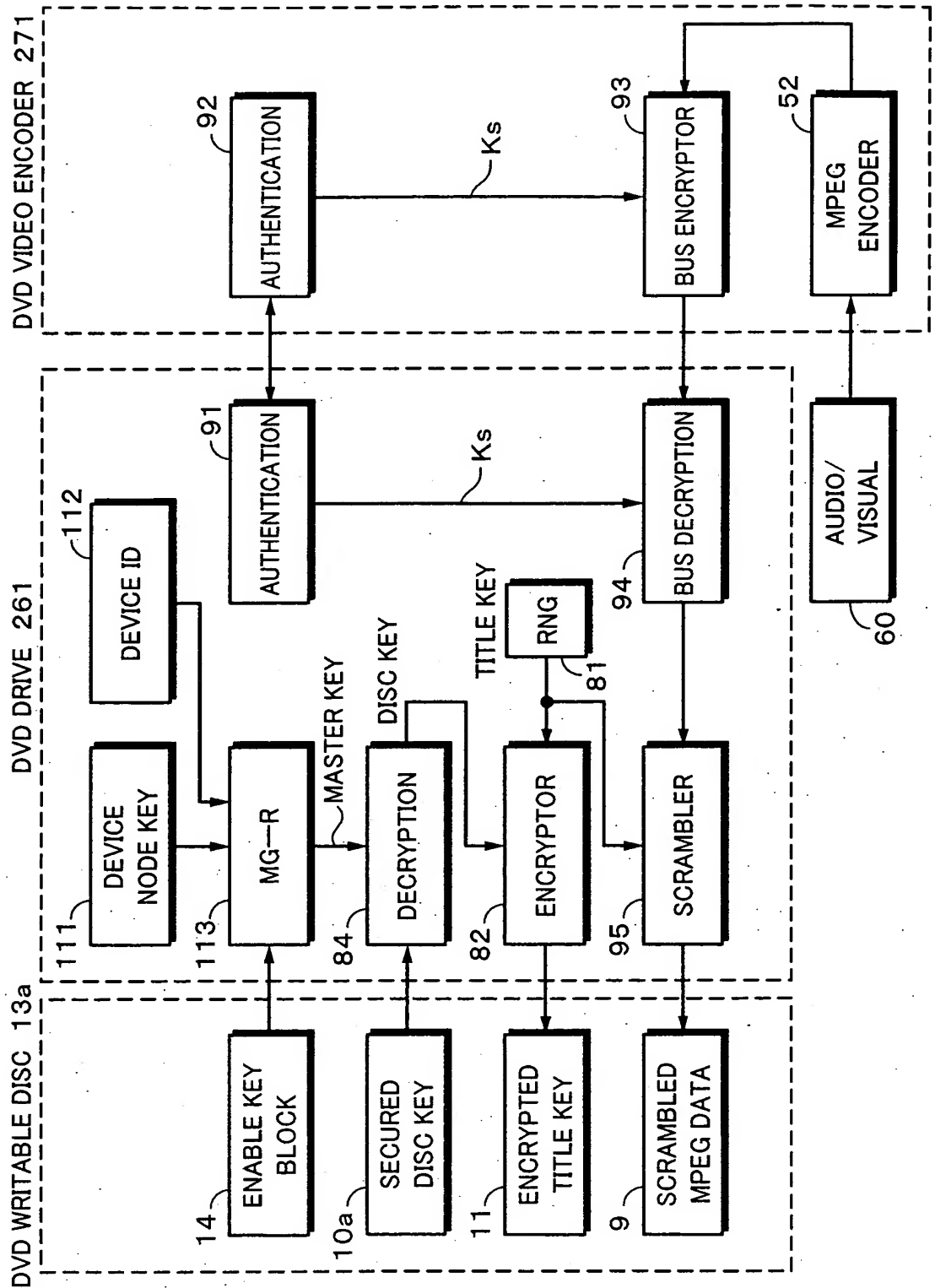
**Fig. 44**



**Fig. 45**



**Fig. 46**



DESCRIPTION OF REFERENCE NUMERALS

ST101	DETERMINATION OF MEDIUM TYPE
ST102	ROM ?
ST103	DISC TYPE = ROM
ST104	DISC APPLICATION CODE = VIDEO WRITABLE ?
ST105	DISC TYPE = RESERVED
ST106	DISC TYPE = VIDEO WRITABLE
ST111	MUTUAL AUTHENTICATION
ST112	OBTAIN DISC TYPE FROM DRIVE.
ST113	DISC TYPE = ROM ?
ST114	PROHIBIT DATA FROM BEING WRITTEN
ST115	DISC TYPE = VIDEO WRITABLE
ST116	DATA WRITABLE
ST117	VIDEO WRITABLE CORRESPONDING TO CSS/CPRM
ST11	RECEIVE (Rb1, Rb2)
ST12	RETURN (eKm (Ra1    Rb1), Ra1)
ST13	RETURN (Ra2, Ra3)
ST14	RECEIVE (eKm (Rb2    Ra2), Rb3)
ST15	SAME MAC ?
ST16	ESTABLISHMENT OF SESSION KEY (eKm (Ra3    Rb3)
ST17	RETURN (ERROR)

ST21        SEND KEY (Rb1, Rb2)

ST22        REPORT KEY (eKm (Ra1 || Rb1), Ra1)

ST23        SAME MAC ?

ST24        REPORT KEY (Ra2, Ra3)

ST25        SEND KEY (eKm (Rb2 || Ra2), Rb3)

ST26        ERROR ?

ST27        ESTABLISHMENT OF SESSION KEY (eKm (Ra3 || Rb3)

ST31        VIDEO PACK

ST32        ENCRYPT/DECRYPT DATA.

ST33        AUDIO PACK

ST34        SUB PICTURE PACK

ST35        DOES NOT ENCRYPT/DECRYPT DATA.

ST41        ADD EDC.

ST42        SCRAMBLE MAIN DATA.

ST43        ENCODE DATA WITH ECC.

ST44        INTERLEAVE 16 ROWS OF P0.

ST45        MODULATE 26 SYNC FRAMES PER SECTOR.

ST51        HAS DVD+RW/+R DISC BEEN INSERTED ?

ST52        HAS PC APPLICATION BEEN STARTED ?

ST53        MUTUAL AUTHENTICATION AND GENERATION OF SESSION KEY

ST54        COMPLETED ?

ST55        DISABLE CSS KEY WRITE PROHIBITION

ST56        COMPLETION OF PC APPLICATION ?



ST57        ERASE SESSION KEY GENERATED IN PC.  
ST58        HAS PC APPLICATION BEEN STARTED ?  
ST59        HAS DVD+RW/+R DISC BEEN EJECTED ?  
ST60        ERASE SESSION KEY GENERATED IN DRIVE.  
ST61        PROHIBIT CSS KEY FROM BEING WRITTEN.

9            SCRAMBLED MPEG DATA  
10a, 10b    SECURED DISC KEY  
11           ENCRYPTED TITLE KEY  
13a, 13b    WRITABLE DISC  
52           MPEG ENCODER  
53, 95      SCRAMBLER  
56, 78, 84   DECRYPTOR  
57, 83      MASTER KEY  
60           AUDIO/VISUAL DATA  
62, 72      AUTHENTICATION SECTION  
63, 76, 85   BUS ENCRYPTOR  
66, 73, 77   BUS DECRYPTOR  
81, 86      RANDOM NUMBER GENERATOR  
82, 87      ENCRYPTOR  
101, 102    MASK CONTROL  
161, 261    DRIVE  
171, 271    PC

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☐ FADED TEXT OR DRAWING
- ☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☐ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☒ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**